Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Connecticut—Lordship Co. voted to apply to General Assembly for right to lay trolley tracks on numerous streets. M. C. Connell, 1188 Main St., Gen. Mgr.

Virginia—H. R. Booker, Nelson D. Groome and H. H. Holt granted franchise by Council, Hampton, railway spur from Mallory Ave. to city limits.

Virginia—W. G. Coutts, Big Stone Gap, and associates, coal and coke interests, interested in railway from Lee County, Va., to Harlan County, Ky.

West Virginia—Pittsburgh & West Virginia Railway Co., successor to Wabash-Pittsburgh Terminal Co., plans line from Wellsburg to Beech Bottom, about 2 mi. F. J. Brunner, Wellsburg, Secy.

South Carolina—Charlotte, Monroe & Columbia R.R. plans to extend line from Jefferson, S. C., northwest to Monroe, N. C., about 25 or 30 mi. J. E. Hancock, Hamlet, N. C., Gen. Mgr.

Mississippi—Indianapolis capitalists, Ind., plan electric railway from Vicksburg to Jackson, about 40 mi. east. Address H. C. McCabe, Secy., Vicksburg Young Men's Business Club.

Tennessee—Mathieson Alkali Works, Saltville, soon lets contract line from Saltville to Mendota, about 32 mi.

Michigan—Pere Marquette Ry. plans to rebuild main line on Holland-Pentwater branch from Muskegon to Holland with 90-lb. rails next year. A. L. Grandy, Detroit, Ch. Engr.

Illinois—Southern Illinois Light and Power Co., Hillsboro, plans to extend Taylor Springs line to smelter American Zinc Co., about ½ mi. J. J. Frey, Hillsboro, Gen. Mgr.

Minnesota—L. W. Hill, Pres. Great Northern Ry., announced that all railroads of St. Paul joined project to build belt line railway around city from point north Hazel Park to South St. Paul. About $2,000,000.

Kanas—Colorado, Kansas & Oklahoma R.R. made preliminary plans for line from Scott City, Kan., to Forgan, Okla. B. L. Allen, Russell Springs, Okla., Ch. Engr. Noted Nov. 9.

Kansas—Oklahoma & Northern Traction Co. will ask Council, Columbus, franchise to build and operate interurban railway into and through city. W. K. Palmer, Bartlesville, Okla., Ch. Engr.

Texas—Houston, Richmond & Western Traction Co. lets contract supplies and equipment line from Houston to San Antonio, 190 mi., about February or March. W. A. Reinhardt, Houston, Vice-Pres. and Gen. Mgr. Noted Nov. 9.

Idaho—Boise Valley Traction Co. granted franchise by Council, Caldwell, line along Cleveland Blvd. H. F. Dicke, Boise, Gen. Mgr.

California—Ocean Shore R.R. operating 38 mi. line from San Francisco, Calif., to Tunitas, projected extension from Tunitas to Swanton, 26 mi. J. G. Sutton, 52 11th St., San Francisco, Gen. Mgr.

Quebec—Quebec Central Ry. making plans extension from Scotts, Que., to connection with Transcontinental Ry. at Diamond Junction, 19.3 mi. J. H. Walsh, Sherbrooke, Gen. Mgr.

Ontario—I. D. Smith, Baysville, interested in movement to build hydro-radial road from Gravenhurst to Baysville bringing Lake of Bays in rail connection with Grand Trunk Ry. about 22 mi. Project placed before Hydro-Electric Comn. and preliminary survey made.

British Columbia—Bd. Trade, New Westminster, negotiating with British Columbia Electric Ry. for assistance to build industrial spur on Lulu Island. A. G. Eddy, Engr., estimates cost of about 3 mi. trackage, 1½ mi. on either side and paralleling shore at $65,000. A. W. Gray, Com. of Bd. Trade.

Bids In and Contracts Awarded

Louisiana—New Orleans & Lower Coast Railroad Co. organized to succeed New Orleans, Ft. Jackson & Grand Isle Railroad Co. announced that extension from Buras to Venice about 16 mi., to be built by company forces. G. Janvier, New Orleans, Secy. Noted Dec. 21.

LIGHT, HEAT AND POWER

Proposed Work

N. C., Durham—Durham Traction Co. plans to spend $30,000 to improve power plant.

Ky., Paducah—City plans enlarging electric-light plant. F. N. Garns, Mayor.

Ohio, St. Marys—City sold $45,000 bonds to improve electric-light plant and water system. F. Froehlich, Second National Bank Bldg., Toledo, Engr. Noted Dec. 7.

Wis., Knapp—City plans electric-light system. A. S. Wells, Secy. Wells Electric Construction Co., New Richmond, interested.

Minn., Victoria—Waconia Light and Power Co. granted franchise, transmission line.

Kan., McCracken—See item under "Water-Works."

Tex., Atlanta—Atlanta Electric and Ice Co. making plans rebuilding plant destroyed by fire. Loss $30,000.

Tex., Bowie—City voted to purchase electric-light plant, plans extending and improving.

Tex., Forney—Council plans electric-light system.

Tex., Houston—Baptist Sanitarium plans power house. About $8,000.

Okla., Stroud—See item under "Water-Works."

Bids In and Contracts Awarded

Mass., West Roxbury—(Boston post-office)—City let contract additions boiler house to POWER, HEAT AND VENTILATING CO., 63 Beverly St., Boston. About $34,015.

Mich., Verona—Coats & Tweed Mining Co., Duluth, Minn., let contract central heating plant, machine shop, power house, etc., to FOSTER CONSTRUCTION CO., Caswell Blk., Milwaukee, Wis., $175,000.

BRIDGES

Proposed Work

N. Y., Lake George—Warren County plans to replace bridge across Hudson River between Riverside and Thurman. About $30,000. B. E. Murray, Lake George, Supt. Highways.

N. J., Salem—Salem County receiving bids in January bridge over Salem River. About $75,000. Address County Clk., Salem. Noted Nov. 16.

Pa., Norristown—Montgomery County soon receives bids bridge over Wissahickon Creek on Chestnut Hill Rd. near Ambler. About $6,000. Address County Clk., Norristown.

Pa., Williamsport—City made plans bridge over Grafius Run at Louisa St. J. B. Otto, City Engr.

N. C., Scotland Neck—Halifax, Bertie and Northampton Counties plan bridge over Roanoke River. Address County Clk., Halifax.

Fla., Quincy—Gadsden County voted bonds to build bridge across Apalachicola River on old Spanish Trail. Address County Clk., Quincy.

Ala., Demopolis—Warrior Bridge Co., incorporated with $50,000 capital stock to build bridge over Warrior River. W. S. Prout, Demopolis, Pres.

Ala., Lafayette—Chambers County receiving bids Jan. 13 substructure, bridges over Osanippa and Davis Creeks on State Highway near Fairfax. S. E. Fitch, Lafayette, County Engr.

Miss., Bay St. Louis—City plans highway bridge across St. Louis Bay. About $800,000.

Miss., Canton—See item under "Streets and Roads."

La., Oberlin—See item under "Streets and Roads."

Tenn., Memphis—Southern Ry. plans bridge at Monroe Ave. B. Herman, Washington, D. C., Ch. Engr.

Ky., Louisville—Jefferson County Fiscal Court and Park Comn. plans rein.-con. bridge over Paddy's Run. About $10,000. Address County Clk., Louisville.

Ky., Williamsburg—Whitley County to let contract in January, 100-ft. and 300-ft. span bridges. B. F. Rose, Williamsburg, County Judge.

Ohio, Bucyrus—Crawford County Comrs. receiving bids Feb. 1 bridge across Sandusky River at Gay St. About $15,000. Address County Clk., Bucyrus. Noted Aug. 24.

Ohio, Dayton—Montgomery County receiving bids Jan 13 steel superstructure bridge No. 21 Madison Township, and steel superstructure bridge No. 55, Madriver Township. V. C. Smith, Dayton, County Engr.

Ohio, Galion—Crawford County receiving bids Feb. 1 bridge on Gill St. About $10,000. O. H. Biebenhauser, Bucyrus, Audr. H. Keller, Court House, Bucyrus, Engr. Noted Oct. 5.

Ohio, Painesville—Lake County Comrs. rejected bids raising Furnace Bridge. Revised plans being made. Address County Clk., Painesville.

Ind., Auburn—DeKalb County receiving bids in spring concrete bridges in various townships. S. P. Nelson, Auburn, County Audr.

Ind., Decatur—Adams County making plans several bridges. P. Macklin, Decatur, County Surv.

Ind., Richmond—Wayne County Comrs. appropriated $180,000 for Main St. bridge and $185,000 for South G St. bridge over Whitewater River. Address County Clk., Richmond. Noted Sept. 14.

Mich., Detroit—City votes in spring on bonds rein.-con. permanent bridge connecting city with Belle Isle subway approach from mainland at Jefferson Ave. M. E. Cooley, University of Michigan, Chn. Noted Dec. 14.

Ia., Knoxville—(Official)—Marion County receiving bids Jan. 18 pony truss bridge. About $4,888. W. O. Price, Knoxville, County Engr.

Ia., Knoxville—(Official)—Marion County receiving bids Jan. 18 pony truss bridge. About $5,802. W. O. Price, Knoxville, County Engr.

Ia., Marion—Bd. Superv. Linn County soon receives bids bridge on Troy Mills Rd. Address County Clk., Marion.

Minn., Wheaton—Traverse County receiving bids Jan. 2, 3 steel bridges. J. T. Erickson, Wheaton, County Audr.

Kan., Concordia—Cloud County receiving bids Jan. 2, 9 rein-con. bridges. G. C. Guilbert, Concordia, County Clk.

Kan., Wichita—Sedgwick County receiving bids Dec. 30 bridges in Riverside, Salem and Delano Townships. E. V. Monroe, Wichita, County Engr.

Neb., York—York County receiving bids Jan. 9 rein.-con. bridge. A. H. Beck, York, County Clk.

S. D., Deadwood—Lawrence County receiving bids Jan. 8 bridges, abutments, etc. F. Harris, Deadwood, County Audr.

S. D., Watertown—Codington County receiving bids Jan. 2 bridge over Sioux River. Address County Clk., Watertown.

N. D. Cavalier—Pembina County receiving bids Jan. 5, 8 bridges. W. W. Felson, Cavalier, County Audr.

Mont., Hardin—(Official)—Big Horn County defeated $37,000 bonds for bridge over Big Horn River. J. E. Graham, Hardin, County Engr. Noted Dec. 7.

Mo., Fulton—Callaway County plans steel bridge over Gow Creek on Williamsburg-Readsville Rd. W. P. Divers, Fulton, County Surv.

Mo., Warrensburg—(Official)—Johnson County receiving bids Jan. 16, 16 steel bridges. Noted Nov. 2.

Tex., Emory—Rains County plans bridge at Free Bridge Crossing over Sabine River. Address County Clk., Emory.

Tex., Galveston—City made plans reconstructing damaged portion Galveston causeway. Concrete-Steel Engineering Co., Park Row Bldg., New York, Engr.

Idaho, Lewiston—Nez Perce County plans election to vote on $200,000 bonds to build 4 bridges over Clearwater River and purchase of bridge crossing Clearwater River on 18th St. Address County Clk., Lewiston.

Bids In and Contracts Awarded

Mass., Franklin—Milford, Attleboro & Woonsocket St. Railway Co., 500 Main St., Springfield let contract bridge to F. T. LEY & CO., INC., 499 Main St., Springfield. About $5,000. Noted Dec. 7.

N. J., Trenton—Pennsylvania Railroad Co. let contract steel bridge at Whiteroad Rd. to BRAUN & STEWART CO., Commercial Trust Bldg., Phila, Pa., $20,000.

W. Va., Wheeling—Ohio County Comrs. received low bids bridges (a) Battle Run, (b) Middle Wheeling Creek from D. Lew, (a) $3,140, (b) No. 1, $4,560, (b) No. 10, $4,210; Concrete Bridge Co., Clarksburg, (a) $3,727, (b) No. 1 $6,300, No. 10, $6,244; Ferris Engineering Co., Pittsburgh, Pa., (a) $3,500, (b) No. 1, $5,572, No. 10, $10,600. Address County Clk., Wheeling.

Ga., Atlanta—Council let contract Edgewood Ave. bridge to R. M. WALKER, Atlanta. Noted Nov. 16.

Ga., Vienna—Dooly and Sumpter Counties let contract bridge over Flint River at Murray's Ferry to SOUTHERN BRIDGE CO., Birmingham, Ala., $11,200. Noted Nov. 9.

Wis., Appleton—Chicago & Northwestern Railroad Co. let contract rebuilding bridge over Fox River to W. W. GAFFIN, 268 Sheboygan St., Fond du Lac, $35,000.

Wis., Weblake—Joint Town and County Com. let contract steel bridge over Namakagan River to H. A. ROUSH, Webster, $4,056. Noted Dec. 14.

WATER-WORKS

Proposed Work

N. Y., Canton—Village Trustees retained C. E. Perry, Albany, to make plans water system. Noted Dec. 7.

N. J., Dover—Bd. Water Comrs. plans addition to water system. C. P. Cook, Supt.

N. J., Ogdensburg—City granted permission by North Jersey Water Supply Comn. to develop additional water supply for city service from branch of Walkil' River. Plans being made diverting dam, reservoir, filter plant and pipe line. About $100,000.

N. J., South Orange—Town Officials granted permission by Bd. Freeholders, Essex County, water lines in South Orange Ave.

Pa., Centralia—Wyoming Valley Water Supply Co. made plans dam in Brush Valley, and reservoir in Aristes to furnish Centralia. H. J. Heffner, Wilkes-Barre, Supt.

Pa., Danville—City retained Chester & Fleming, Hydraulic Engr., Union Bank Bldg., Pittsburgh, to make plans water system.

Pa., Pittsburgh—Denny Estate granted permit steel tank and pump shed foot 35th St., 6th Ward. About $15,000.

Pa., Reading—Angelica Water and Ice Co. having plans made by W. H. Dechant & Son, Baer Bldg., reconstruction of water-works in Cumru Township. Noted Nov. 16.

Pa., Spring City—Bd. Trustees State Institute for Feebleminded of Easton, receiving bids Jan. 3, 18-in. terra cotta storm-water sewer with manholes, and concrete apron. P. H. Johnson, 1824-25 Land Title Bldg., Philadelphia, Engr.

Del., Newark—Council retained Kastenhuber & Anderson, Easton, Pa., to make plans improving water system. E. C. Wilson, Comr.

N. C., Belmont—City plans water-works and sewer systems. Address Mayor.

S. C., Liberty—City plans election to vote on bonds to build water system.

Ga., Savannah—Council plans 14,000 water meters. E. R. Conant, City Engr.

Miss., Woodville—City receiving bids Jan. 2 improving water and light plants. C. C. Cohen, Clk.

Miss., Yazoo City—Supervs. Yazoo County receiving bids Jan. 1 concrete reservoir on poorhouse premises and pipe line from spring to reservoir. S. S. Griffin, Yazoo City, Clk.

La., Bossier—City making plans water system, including 75,000-gal. steel tower. About $10,000. Honaker & Swope, Shreveport, Engr.

La., Logansport—City made plans water and sewer systems. About $20,000. Honaker & Swope, Shreveport, Engr.

Ky., Auburn—Town Bd. Trustees plans bond issue to install water system.

Ky., Murray—City receiving bids Jan. 15 sale of $20,000 bonds to build water-works. X. A. Kramer, Magnolia, Miss., Engr. Noted Nov. 23.

Ky., Scottsville—City plans to install water system. Surveys being made. Night & Quayle, Chattanooga, Engr.

Ohio, Bellaire—Council plans water main in Union St. About $16,000. J. Wilkinson, Supt.

Ohio, Fostoria—Council passed resolution to install new pumps at water-works. W. Lord, Supt.

Ohio, Geneva—Geneva Water Co. receiving bids Jan. 15 sedimentation tank and filter plant. About $6,000. J. Reeves, Supt. Noted Oct. 19.

Ohio, Kent—City plans $110,000 bond issue installing filters, pumps, boiler and additional piping. S. F. Messer, Supt.

Ohio, Martins Ferry—City making plans addition and extending water system. About $10,000.

Ohio, Newark—(Official)—Dept. Pub. Ser. receiving bids Jan. 3 for purchase of 1 200-hp. water-tube boiler, 3 horizontal return-tube boilers, 1 Hamilton Corliss engine, 1 Westinghouse exciter. G. Buchanan, Supt. W. C. Christian, Dir.

Ohio, St. Clairsville—City making plans water system.

Ohio, St. Marys—See item under "Light, Heat and Power."

Mich., Detroit—Water Bd. made plans filter plant, capacity 320,000,000 gal. About $4,000,000. T. A. Leisen, Water Bd., Engr. Noted Dec. 21.

Mich., Flint—City soon lets contract additions filter plant. W. L. Fisher, Supt.

Mich., Sault Ste. Marie—City plans c.-i. water mains in portions Portage Ave., Magazine, Ashmun and Maple St. R. A. Frederick, City Engr.

Ill., Oak Park—City receiving bids in February extending water pipe in portion Austin Blvd. W. F. Sargent, Village Hall, Engr.

Ill., Park Ridge—(Official)—Bd. Local Impvts. receiving bids Jan. 11 sewer system, water mains and appurtenances in Elm, Grace St., Greenwood and Chester Ave. Noted Dec. 7.

Ill., Peru—City making plans new reservoir. E. Byrne, Supt. Noted Aug. 31.

Wis., Denmark—(Official)—City receiving bids Jan. 2 drilling one or more 8-in. wells, 200 ft. deep. G. H. Rathke, Village Clk.

Ia., Huxley—City plans water system.

Ia., Massena—City plans water system. About $15,000.

Ia., Maxwell—(Official)—City voted $15,000 bonds to build steel tank and extending water mains. Noted Nov. 30.

Minn., Duluth—City soon receives bids large parallel supply main from 34th Ave., E., reservoir. D. C. Keefe, Supt.

Minn., Duluth—City soon receives bids water mains on 31st Ave. D. C. Keefe, Supt.

Minn., St. Paul—(Official)—City receiving bids Feb. 5, high-service rein.-con. covered reservoir at end of Dale St. G. O. House, Gen. Supt. Noted Nov. 16.

Kan., Caney—City made plans improving water system. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr. Noted Sept. 14.

Kan., Caldwell—(Official)—City votes Jan. 23 $80,000 bonds to improve water and light plant. I. M. Horton, Mayor. Noted Oct. 19.

Kan., McCracken—City plans election to vote on $30,000 bonds to build water system and electric-light plant. W. B. Rollins & Co., 209 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Plainville—City plans water system. About $10,000. F. J. Hoss, Supt.

S. D., Sioux Falls—City plans to extend water mains on various streets. S. J. Towner, Supt.

Mont., Ft. Keogh—(Miles City post office)—Custer County receiving bids Jan. 6, 1 20-in. centrifugal pump. A. H. Swerdfiger, Miles City, County Audr.

Mont., Roman—City made plans water system. E. D. Covell, Engr.

Mo., Ozark—Christian County plans waterworks in Ozark. J. C. Rogers, Ozark, interested.

Tex., Franklin—City plans water mains.

Tex., Houston—City plans auxiliary water plant on South Side. About $100,000. D. Fitzgerald, Supt.

Tex., Terrell—City plans reservoir, 200,000 gal. capacity. Address Mayor.

Okla., Drumright—City plans election to vote on $43,000 bonds to extend water system. A. J. Fogaley, Clk.

Okla., Oklahoma—City will readvertise bids to construct clear well and conduit at new waterworks. Benham Engineering Co., Colcord Bldg., Engr. Noted Nov. 23.

Okla., Sapulpa—City plans gravity water line from reservoir to pumping station, 3 dams in Euchee Creek, 60 ft. long, 18 ft. wide, 15 ft. high. J. T. Schwab, Supt.

Okla., Tahlequah—City plans election in January to vote on $30,000 bonds to build waterworks. J. R. Hicks, Supt. Noted Oct. 26.

Okla., Verdee—City plans water system. J. N. Kern, Mayor.

Colo., Colorado Springs—City made surveys water system. About $500,000. George P. Anderson, Los Angeles, Engr. Noted Aug. 17.

Colo., Trinidad—Council sold $28,000 bonds to build water-works system. W. R. Lewis, Supt.

Idaho, Blackfoot—Council plans to purchase and improve system Blackfoot Water Co.

Idaho, Rexburg—City votes January on $150,000 bonds to build water system. Cotton & Wilson, Engr., making plans. P. O. Thompson, Supt.

Utah, Hurricane—Town soon to vote on $20,000 bonds to install sanitary water system.

Utah, Magna—G. A. Rousell, W. Cooper and C. L. Bradford applied to Council franchise to build water system.

Nev., Elko—(Official)—City retained L. C. Kelsey, Consult. Engr., Portland, Ore., Twin Falls, Idaho to make plans water system. About $200,000.

Wash., Cheney—Citizens voted $10,000 bonds to improve water system.

Wash., Tacoma—F. C. Ross petitioned Pierce County Comrs. for franchise for water mains and distributing lines. About $100,000. O. Anderson, County Audr.

Calif., Sunnyvale—City receiving bids Jan. 15, $19,000 bonds to improve water system. Noted Dec. 7.

Ont., Hamilton—Council voted against proposition to build reservoir. About $428,250. Noted Dec. 7.

Ont., Sault Ste. Marie—J. W. S. McCullough, M. D., Provincial Health Officer, and A. V. Delaporte, Asst. Sanitary Engr., both of Toronto, were in city investigating new source water supply.

Ont., Thorold—Town Council receiving bids Dec. 30 supply turbine pipe and electric motor. L. S. O'Connor, Supt. Water-Works Noted Sept. 14

B. C., Trail—Council retained A. McCulloch, Engr., Nelson, to prepare estimate on improved water and sewer systems.

B. C., Victoria—Council reached agreement with Dominion government whereby government will build water main from city's Sooke Lake main to William Head quarantine station to supply station with water. About $125,000.

Bids In and Contracts Awarded

N. C., Clayton—(Official)—City let contract 650-ft. 6-in. and 2,000-ft. 8-in. c.-i. pipe, hydrants and valves to PORTER & BOYD, INC., Charlotte. About $32,000. Noted Dec. 7.

Fla., Jacksonville—City let contract relining water-works aërating basin, 1st and Main St., to SOUTHERN CONSTRUCTION CO., about $17,140. Noted Nov. 9.

Ohio, Lima—City received low bid improving water system from F. R. Jones Co., East 116th and Baldwin Ave., Cleveland. Noted Nov. 23.

Wis., Beaver Dam—City let contract furnishing 400 water meters to BUFFALO METER CO., 290 Terrace St., Buffalo.

Wis., Madison—City transferred contract enlarging pumping station, including 8,000,000 gal. pumping engine, horizontal cross-compound, from Allis-Chalmers Co., Milwaukee, to INDIANA AIR PUMP CO., Indianapolis, about $30,749. Noted Nov. 30.

Wis., Oshkosh—City let contract submerged crib and intake pipe water system to J. RASMUSSEN & SONS CO., Oshkosh, about $35,329.

Ia., Stuart—(Official)—See item under "Sewers."

Mo., St. Louis—City let contract clinker reservoir, Prospect Hill to FRUIN-COLNON CONSTRUCTION CO., Laclede Bldg. About $25,000.

Okla., Stroud—City let contract improving water system and electric-light plant to CHICAGO BRIDGE AND IRON WKS., 105th and Throop St., Chicago, Ill. About $30,000. Noted Nov. 16.

Okla., Wetumka—City let contract improving water and sewer systems to N. S. SHERMAN MACHINE AND IRON WORKS, Oklahoma, about $18,815. Noted Sept. 7.

Utah, Salt Lake City—City Comr. let contract pumping plant for gravity outlet sewer to LYNCH CANNON ENGINEERING CO., Dooly Bldg., Salt Lake City, $18,625. Noted Dec. 21.

Ont., Collingwood—Water and Light Com. let contract chlorination plant to ELECTRO BLEACHING GAS CO., 18 East 41st St., New York.

Ont., Cornwall—City let contract water system as follows: Pumps to TURBINE EQUIPMENT CO., Toronto, $10,000, and wheels to KENNEDY & SONS, Owen Sound, $5,000. Noted Nov. 16.

SEWERS

Proposed Work

Mass., Springfield—Council passed ordinance sewer in Athol St. F. H. Clark, City Engr.

Ct., Waterbury—City plans storm sewer in Thomaston Ave. R. A. Cairns, City Engr.

N. Y., Binghamton—City to let contract in spring sewers on south side Susquehanna River and river crossing. W. E. Weller, City Engr.

N. Y., Jamestown—See item under "Bridges."

N. Y., Le Roy—(Official)—J. P. Wells, 344-345 Cutler Bldg., Rochester, is making surveys and estimates sewer system at Le Roy, N. Y., not Le Roy, N. J., as noted in issue of Dec. 14.

N. J., Bayonne—(Official)—City retained G. A. Johnson, Consult. Engr., 150 Nassau St., New York, make plans disposal plant. W. T. Clarkson, City Engr.

N. J., Glassboro—Whitney Glass Works making plans disposal plant. Devou & McGormley Co., Toledo, Ohio, Engr.

N. J., Little Falls—State Bd. Health arranging preliminary plans trunk sewer from Wharton to Little Falls, with 26 mi. lateral sewers. About $2,000,000.

N. J., Morris Plains—B. D. Evans, Supt. State Asylum for Insane made application to State for appropriation $40,000 disposal plant, $15,000 road work.

Pa., Elwood City—City soon receives bids sewer in Maple Way and Franklin Ave.

Va., Petersburg—City appropriated $8,500 storm sewer in River St. N. T. Patterson, Chn. Finance Com.

N. C., Belmont—See item under "Water-Works."

La., Logansburg—City making plans sewer and water systems. Honaker & Swope, Shreveport, Engr.

Ohio, Barberton——City plans disposal plant. About $100,000. H. W. Alcorn, City Engr.

Ohio, Canton—Council passed ordinance sanitary sewer portion Bedford Ave., N. W. W. E. Sarver, City Engr.

Ohio, Cincinnati—Council adopted resolutions sewers in Richter Ave. and Reading Rd. F. Krug, City Engr.

Ohio, Cuyahoga Falls—City receiving bids Jan. 1 sewer in Front St. About $60,000. E. D. Barstow, City Engr.

Ohio, Leetonia—E. G. Bradberry, Columbus, submitted plans disposal plant. About $28,000.

Ohio, Maumee—City plans trunk sewers. G. Champs, Toledo, Consult. Engr.

Ohio, Norwood—City soon receives bids sewer in Station Ave. About $5,000. J. G. Schmidt, City Engr. Noted Nov. 23.

Ohio, Oberlin—Council passed resolutions sewers in North Main and Union St.

Ohio, Piqua—City plans sewer portion Commerce St. A. Schroeder, City Engr.

Ohio, Swanton—City receiving bids Jan. 11 sewer Dist. No. 2. H. McKechnie, City Engr.

Sewers (Continued)

Ohio, Youngstown—Council passed resolution sewers portions Indiana and Manhattan Ave. F. M. Lillie City Engr.

Ind., Bicknell—City soon lets contract sewer system.

Ind., Indianapolis—City made revised plans, sewer in Brightwood Ave. About $80,000. B. J. T. Jeup, City Engr. Noted Oct. 12.

Ind., Indianapolis—Bd. Pub. Wks. made plans disposal plant. About $1,500,000. B. J. T. Jeup, City Engr.

Ill., Berwyn—City receiving bids about Jan. 15, extending sewers in 22nd and other streets. About $20,000. B. Strutzenberg, City Engr. Noted Nov. 30.

Ill., Cambridge—City plans 6 mi. sewers, 2 disposal plants, Imhoff type. About $42,000, for latter. H. G. Stokes, Kewanee, Engr.

Ill., Normal—City plans disposal plant and septic tank. T. Keys, City Clk.

Ill., Park Ridge—See item under "Water-Works."

Ill., Rock Island—City plans sewers in 18th Ave., 16th St., 2,340 ft. 12-in., 2,910 ft. 10-in., 8,450 ft. 8-in. vitrified pipe, 220 house connections, 15 flush boxes, 10 manholes and 2 tanks. W. Treichler, City Engr.

Wis., Milwaukee—(Official)—Sewerage Comn. receiving bids Jan. 11, construction and extension Intercepting Sewer System. J. H. Fowles, Secy. (See adv. Dec 21 issue.)

Ia., Dows—City made plans sewer system and disposal plant. About $22,000. M. Tschirgi & Sons, 712 American Trust Bldg., Cedar Rapids, Engr. Noted Nov. 9.

Ia., Marion—City plans sanitary sewer. About $4,217.

Minn., Red Lake Falls—City receiving bids Dec. 30, sewers. J. A. Wallace, Crookston, Engr.

Mont., Terry—Council plans voting bonds to install sewers.

Mo., Higginsville—(Official)—City receiving bids Jan. 3, disposal plant and sewer mains. Burns & McDonnell, Interstate Bldg., Kansas City, Consult. Engr.

Tex., Columbus—City plans disposal plant. J. H. Payne, Health Officer.

Tex., Forney—City made plans disposal plant. Myers & Noyes, Dallas, Arch.

Tex., Gainesville—City made plans disposal plant. About $35,000. H. H. Maire, Austin, Arch.

Tex., Honey Grove—City plans improving sewer system.

Tex., Mineral Wells—V. M. Ehlers, State Engr., approved plans disposal plant. About $25,000. Young & Lansay, San Antonio, Designing Engr. N. Werenskiold, Dallas, Consult. Engr. Noted Nov. 9.

Tex., Sulphur Springs—City plans additional treatment to disposal plant. R. D. Saunders, City Engr.

Tex., Tyler—City plans purchasing sewer system, also extending and improving. J. J. White, City Engr.

Okla., Carnegie—City making preliminary plans. About $25,000. Benham Engineering Co., Colcord Bldg., Oklahoma, Engr. Noted Dec. 23.

Okla., Drumright—City soon votes on $25,000 bonds to install storm sewers and culverts.

Okla., New Wilson—City to vote Jan. 5 on $30,000 bonds to install sewers.

Okla., Wetumka—See item under "Water-Works."

Idaho, Roxburg—City plans election in Jan. to vote on $50,000 bonds to build sewer system. Cotton & Wilson, Engr. Noted Mar. 9.

Bids In and Contracts Awarded

N. Y., Larchmont—Village Bd. Trustees let contract sewers in Vanderburgh and Chatsworth Ave. to M. DECICCO, Woodland Ave. Noted Dec. 14.

Miss., Oxford—Lafayette County Comrs. let contract sewer to A. W. WILLS & SON, Boatmen Bank Bldg., St. Louis, Mo., $100,000.

Ohio, Greenville—(Official)—City let contract 8,000-ft. storm sewer to W. J. IRWIN & SON, Greenville. About $56,668. Noted Nov. 30.

Ohio, West Park—Council let contract sewer No. 160, Lorain Ave., to MANSON CO., 120 Engineers' Bldg., Cleveland.

Ind., Mishawaka—Bd. Pub. Wks. let contract sewer portion 9th St. to NATIONAL CO., South Bend.

Ia., Stuart—(Official)—City let contract (a) sewer system, (b) disposal plant, (c) extending water system, to (a) DUNNEGAN & BRIGGS, Shenandoah, $33,293; (b) WARD & WEIGHTON, Sioux City, $8,900; (c) DUNNEGAN & BRIGGS, Shenandoah, $4,794. Noted Dec. 7.

Kan., Sedan—City let contract sewer system and disposal plant to KOEHLER CONSTRUCTION CO., 78th and Troost St., Kansas City, Mo., $39,870.

Mo., Kansas City—Bd. Pub. Wks. let contract sewer Dist. No. 334, Div. No. 5, to L. E. KOEHLER, 78th and Troost St., $14,987.

Tex., Frost—City let contract sewer system and disposal plant to ISAACS CO., Waco.

Tex., Llano—City let contract disposal plant to HALL CONSTRUCTION CO., Austin.

Okla., Oklahoma—City let contract sewers in Howes Capital Addition to C. T. DERR, 200 East Main St., $9,618.

Okla., Wetumka—City let contract water pipe to N. S. SHERMAN MACHINE AND IRON WKS., Oklahoma, $18,815.

Idaho, Pocatello—(Official)—City let contract sanitary sewers in Lateral Dist. No. 11 to STRANGE-MAGUIRE CO., Utah Savings and Trust Bldg., Salt Lake City, Utah, $11,075. Noted Dec. 7.

GARBAGE

Proposed Work

N. Y., New York—(Manhattan)—(Official)—R. A. C. Smith, Comr. Docks, Pier "A," foot Battery Pl., North River, Jan. 3, receiving and removing ashes by scows.

N. J., Trenton—City made plans 4 furnace addition to garbage disposal plant. About $30,-000. H. C. Gregory, City Hall, Arch. Noted Oct. 26.

S. C., Charleston—City plans incinerator plant. J. H. Dingle, City Engr.

Ill., Aurora—City plans addition to crematory. M. J. Tarble, City Engr.

Mo., St. Louis—City plans election in May or June to vote on $250,000 bonds to build incinerating plant. E. R. Kinsey, Pres. Bd. Pub. Ser. Noted Jan. 27.

Tex., Dallas—City plans 4 incinerator plants. About $40,000 or $50,000.

Tex., Fredericksburg—City authorities desire information on modern garbage destructors. A. H. Kneese, Fredericksburg, interested.

Bids In and Contracts Awarded

N. Y., New York—(Bronx)—J. T. Fetherston, Comr. Street Cleaning, received low bids Dec. 21 removal of snow and ice during 1916-17 from Daniel Rogge, 51 Chambers St., Manhattan, 32.99c. cu.yd.; Model Contracting Co., 40c. cu.yd.; Fred Schneider, 41.5c. cu.yd. Noted Dec. 14.

Penn., Wilkes-Barre—City let contract collection and disposal of garbage and dead animals period of 10 years to WILKES-BARRE DISPOSAL CO. Noted Oct. 26.

STREETS AND ROADS

Proposed Work

N. Y., New York—(Richmond)—C. D. Van Name, Boro. Pres., New Brighton, S. I., receiving bids Jan. 3 grading and paving portion Portland Pl.

N. Y., Riverhead—Suffolk County plans to spend $510,070 for highway work in 1917. Address County Clk., Riverhead.

N. J., Keyport—City plans improving road from Matawan Creek Bridge to center of city; concrete.

N. J., Mt. Plains—See item under "Sewers."

N. J., Newton—Sussex County making plans improving Ross's Corner-Sussex Rd., about 7 mi., concrete. H. Snook, Newton, County Engr.

Pa., Pottsville—Schuylkill County plans to spend $50,000 to build roads in 1917. Address County Clk., Pottsville.

Pa., Wilkes-Barre—City plans to pave portion Stark St. B. K. Finch, City Engr.

Md., Cumberland—City soon receives bids paving Chase St., about 3½ mi., brick. About $75,000. R. L. Rizer, City Engr. Noted Oct. 19.

Md., Towson—Baltimore County Comrs. plan improving portions Wiseburg and Joplin Rd. Address County Clk., Towson.

Va., Chesterfield—Chesterfield County plans concrete roadway from Petersburg to Switch Creek. About $35,000. Address County Clk., Chesterfield.

N. C., Albemarle—Town Comrs. plan paving 1-mi. streets.

N. C., Franklin—Macon County, Cowee Township votes Jan. 15 on bonds to grade and macadamize roads. E. Johnson, Franklin, Clk.

S. C., Greenville—(Official)—City to let contract in spring, paving and sidewalks. About $130,000. W. F. B. Haynsworth, City Engr. Noted Oct. 19.

S. C., Greenwood—City plans to spend $7,500 for street paving. C. P. Ballenger, Engr.

Fla., St. Augustine—St. Johns County plans paving roads, brick. Address County Clk., St. Augustine.

Ala., Florence—City Comrs. plan paving Court St., vitrified brick on concrete. A. G. Wegley, City Engr.

Ala., Linden—Marengo County receives bids Jan. 18, 8 mi. sand-clay surface road from Dayton to Thomaston, and 2 mi. gravel or sand-clay road south of Linden. Address County Clk., Linden.

Miss., Monticello—Lawrence County voted $50,-000 bonds to improve roads in Dist. No. 1. Address County Clk., Monticello. Noted Oct. 26.

Miss., New Augusta—Bd. Superv. Perry County sold $200,000 bonds to build 4 county roads with Federal Aid. Address County Clk., New Augusta. Noted Dec. 20.

Miss., Port Gibson—Town plans to pave various streets, concrete, about $20,000.

La., Colfax—Grant Parish, Rd. Dist. No. 8 votes March 13 on $150,000 bonds to build 33 mi. Jefferson Highway. Address Police Jury, Colfax. Noted Nov. 24.

La., Oberlin—Allen County, Rd. Dist. No. 2 plans election to vote on $750,000 bonds roads and bridges. C. Lindsay, Oberlin, Secy. Police Jury.

Tenn., Mountain View—City plans election in spring to vote on bonds to gutter and macadamize all streets. Contract soon to be let improving Bernon Ave. and Park Row. Survey being made to pave Taine St. and River Rd. H. H. Satery, Mayor.

Ky., Hazard—City plans to spend $50,000 curbing, guttering and sidewalks various streets.

Ky., Hindman—Knott County soon lets contract grading dirt roads. About $7,500. Address County Clk., Hindman.

Ky., Jenkins—City soon lets contract paving streets. About $40,000. Noted Dec. 14.

Ky., La Grange—Oldham County to issue $50,-000 bonds to build roads and bridges in 1917. Address County Clk., La Grange.

Ky., Pineville—Bell County lets contract in spring improving 30 mi. State Aid roads. S. M. Bryant, Pineville, County Rd. Engr. Noted Nov. 16.

Ky., Prestonburg—City to let contract in January improving various streets. About $35,000.

Ohio, Akron—Summit County to spend $500,-000 additional improving roads. Address County Clk., Akron.

Ohio, Belpre—Council passed ordinance pav-2nd and Maple St.

Ohio, Canton—Council passed ordinance to improve portion 11th St. W. E. Sarver, City Engr.

Ohio, Cincinnati—City plans improving portion 12th St. F. S. Krug, City Engr.

Ohio, Cincinnati—Hamilton County Comrs. authorized issue $67,500 bonds to pay county's share paving Springfield Pike, brick; $92,088 bonds county's share paving Cincinnati-Hamilton Pike, brick. Noted May 11.

Ohio, Cleveland—Cuyahoga County making surveys boulevard along Euclid Creek and Rocky River, about 15 mi. W. M. Freer, Landscape Arch.

Ohio, Columbus—City election in January to vote on $400,000 bonds to improve streets, including 3d, 4th, Main and Broad St. H. Maetzel, City Engr. Noted Dec. 7.

Ohio, Columbus—City receiving bids about Jan. 15 grading and paving North Commonwealth St. Drexel and North Columbia Ave. H. Maetzel, City Engr.

Ohio, Columbus—City plans improving portion High St. About $75,000. H. Maetzel, City Engr.

Ohio, Fostoria—Seneca and Wood County Comrs. plan improving 5½ mi. road between Fostoria and Toledo. About $10,000 macadam and $18,000 brick. Address County Clk., Fostoria.

Ohio, Frankfort—Ross County making plans, receiving bids in January grading and paving. W. Barrett, Chillicothe, County Audr.

Ohio, Johnstown—City to make preliminary survey to estimate cost paving portions East and West Coshocton St.

Ohio, Lakewood—Town passed resolution improving and paving Thrush, Kyle and Northwood St. E. W. Fischer, City Engr.

Ohio, Lancaster—City to vote on bonds to improve West Fair Ave. and Columbus St. J. Griggs, City Engr.

Ohio, Lima—City plans to improve Ontario St. B. H. Simpson, City Engr.

Ohio, Lisbon—Columbiana County received no bids Dec. 46.93 mi. brick and concrete roads, Madison Township. New bids. H. S. Armstrong, Lisbon, County Highway Supt. Noted Nov. 30.

Ohio, Lisbon—Columbiana County soon receives bids improving Cleveland-East Liverpool Rd. About $149,439. H. R. Dickey, Lisbon, County Clk.

Ohio, Norwalk—Council passed ordinance to issue $50,000 bonds to pave North Prospect, Elm, Corwin and Prospect St.

Ohio, Norwood—City voted bonds to extend sewers in portion Crown Ave. Bids soon received. About $5,000. J. G. Schmidt, City Engr.

Ohio, Portsmouth—Scioto County making plans 2 mi. paving on West Side Pike, resurfacing Tow Path Rd., rebuilding Scioto Trail through Lucasville and 3 mi. paving east of Wheelersburg. J. S. Harper, Portsmouth, County Engr.

Ohio, Portsmouth—City plans improving portion Bond St. P. G. Harper, City Engr.

Ohio, Urbana—Champaign County making plans, receiving bids Feb. 1 paving Urbana-West Jefferson Rd. W. S. Coffey, Urbana, County Audr.

Ohio, Wapakoneta—Auglaize County Comrs. plan paving portion St. Marys-Wapakoneta Pike. Address County Clk., Wapakoneta.

Ohio, Youngstown—Council passed ordinances to improve portions La Glede, Overland and Madison Ave. and Emmett and Alexander St. F. L. Lillie, City Engr.

Ohio, Youngstown—Council passed resolution to pave portion East Princeton Ave. F. M. Lillie, City Engr.

Streets and Roads (Continued)

Ind., Auburn—De Kalb County receiving bids Jan. 18 gravel road Franklin Township. S. P. Nelson, Auburn, Audr. Noted Sept. 14.

Ind., Bicknell—Council soon to let contract paving East Altor St., concrete. About $8,000.

Ind., Bloomington—Monroe County receiving bids Jan. 2 gravel roads Perry and Bloomington Townships. W. F. Kinser, Bloomington, Audr. Noted Apr. 20.

Ind., Cannelton—Perry County receiving bids Jan. 1 macadam road Tobin Township. M. C. Conway, Cannelton, Audr.

Ind., Ft. Wayne—City making plans paving Greenlawn and Winter St. F. M. Randall, City Engr.

Ind., Greenfield—Hancock County receiving bids about Jan. 1 improving Augusta-Smith Rd., Buckcreek Township, crushed stone; Wiggins Rd., Center Township, gravel. Address County Clk., Greenfield. Noted Dec. 14.

Ind., Kendallville—City making plans paving portion Diamond St.

Ind., Lebanon—Boone County receiving bids Jan. 2 road on line between Union and Marion Townships. C. Goodwin, Lebanon, Audr.

Ind., South Bend—Park Bd. soon lets contract paving boulevard system between Howard and Leeper Parks. F. J. Anderson, City Engr.

Ind., South Bend—Bd. Pub. Wks. soon receives bids paving portion Portage Court. F. J. Anderson, City Engr.

Ind., Wabash—City making plans improving portion Huntington St. J. B. Chapler, City Engr.

Ind., Williamsport—Warren County receiving bids Jan. 8 roads in Medina, Warren and Washington Townships. Address County Clk., Williamsport.

Mich., Baraga—Baraga County plans election to vote on $110 000 to build trunk road system. State will appropriate $110,000 and Federal Aid will be $220,000.

Mich., Detroit—Bd. Superv. Wayne County appropriated $200,000 in addition to automobile tax of $300,000 to build roads. Address County Clk., Detroit.

Mich., Grand Haven—Bd. Superv. Ottawa County appropriated $91,400 road work. Address County Clk., Grand Haven.

Mich., Zeeland—City making plans paving. About $100,000. L. A. Boulay & Co., Nicholas Bldg., Toledo, Ohio, Engr.

Ill., Bloomington—Bd. Supervs. McLean County favors election to vote on $1 400,000 bonds to pave 234 mi. roads, brick or concrete. County has $97,000, including $24,196 State Aid funds available to hard-surface roads in spring. Contract soon to be let improving road from Tazewell County line to Cropsey. Address County Clk., Bloomington.

Ill., Cicero—City receiving bids about Feb. 1 paving portion West 19th St. About $21,749. L. Mongerg, City Engr.

Ill., Cicero—City making plans paving various streets, asphaltic concrete. L. Mongerg, City Engr.

Ill., East St. Louis—Council soon receives bids improving portion Missouri Ave. About $60,000. Noted Aug. 24.

Ill., La Salle—City plans to pave Grove Cœur St. and portions 11th St. and Bucklin Ave. About $55,466. E. Byrne, City Engr.

Ill., Mt. Carmel—Wabash County making surveys State Aid road. Superv. appropriated $23,-000 toward cost. E. F. Motsinger, Mt. Carmel, County Supt. Highways.

Ill., Peoria—Peoria County Superv. plans to issue $1,700,000 bonds to build roads. Address County Clk., Peoria.

Ill., Streator—City soon lets contract paving portion Bronson Ave., brick. F. Rentz, City Engr. Noted July 6.

Ill., Virginia—Cass County Comrs. receiving bids Apr. 1 improving various roads. About $13,-780. Address County Clk., Virginia.

Ill., Woodstock—Bd. Local Impvts. plans to let contract in March paving Calhoun, South, Lawrence and other streets, concrete, also 20,000 lin.ft. curbing. About $50,000. H. M. Price, 8 South Dearborn St., Chicago Engr. Noted Oct. 26.

Wis., Appleton—Outagamie County plans concrete highway from Appleton to New London. Cost of project to be borne by villages of Greenville and Hortonville through which road will pass and city of Appleton. Address County Clk., Appleton. Noted Apr. 27.

Wis., Cedar Grove—Village plans paving J. Donahue, York Bldg., Sheboygan, Engr.

Wis., Elkhart Lake—City making plans paving Rhine St. About $4,000. J. Donahue, York Bldg., Sheboygan, Engr.

Wis., Richland Center—Council plans voting $24,000 bonds to pave streets in spring.

Wis., Waukesha—City plans to curb and pave Elizabeth, Fulton, Colton and Woodward St. W. Powrie City Engr.

Ia., Ackley—City plans to pave main streets.

Ia., Des Moines—Bd. Superv. Polk County plan improving Panora Rd. Address County Clk., Des Moines.

Ia., Des Moines—Polk County plans election to vote on $400,000 bonds to build complete system highways. J. W. Budd, Des Moines, County Engr.

Ia., Eldora—City plans to pave about 33 blocks and 4 alleys. W. H. Steiner, City Engr.

Ia., Griswold—City plans to pave Main St.

Ia., Marengo—City plans paving portion Marengo Ave. and West Washington St.

Ia., Washington—City plans to repave 29 blocks, brick and tarvia. S. J. Kellogg, Clk.

Minn., Caledonia—Houston County to spend $8,000 and state $4,000 for Booze Route. E. N. Newhouse, Caledonia, County Audr.

Minn., Fairmont—Martin County plans 30 mi. roads. About $30,000. Address County Clk., Fairmont.

Minn., Grand Rapids—Itasca County plans 8-mi. road from Deer River to Smith. Address County Clk., Grand Rapids.

Minn., Madison—Lac Qui Parle County made preliminary plans road work in 1917. About $41,225. A. G. Shogren, Madison, County Audr.

Minn., Mankato—Blue Earth County plans to spend $100,000 road work next year. P. M. Allison, Mankato, County Engr.

Minn., Mankato—City plans to grade and gravel portions Lewis, May, Mulberry and 7 other streets. H. F. Blomquist, City Engr.

Minn., Wadena—Wadena County plans to build highways with $25,000 Federal Aid. E. Boss, Wadena, County Audr.

Minn., Warren—Marshall County has about $35,000 available improving roads next year. O. Lind, Warren, County Engr.

Kan., Pittsburgh—Council passed resolution paving portions Cleveland and Indburg Ave. L. E. Curfman, City Engr.

Neb., Alliance—Box Butte County Comrs. plans paving portion Box Butte Ave. and 3d St. Address County Clk., Alliance.

Neb., Nebraska City—City making plans paving number streets. C. A. Shannon, City Engr. Noted June 8.

N. D., Bismarck—City plans road to river. Address Commercial Club.

Mo., Ironton—Iron County plans election to vote on $170,000 bonds to build roads. Address County Clk., Ironton.

Mo., Kansas City—City plans to widen Baltimore Ave. C. Hill, City Engr.

Ark., Waldron—State Highway Comn., Little Rock, revised plans 39 mi. gravel road from Sebastian County line to Waldron. About $140,-000. Address Clk. Scott County, Waldron.

Tex., Beaumont—Jefferson County plans repairing Beaumont-China Rd. Address County Clk., Beaumont.

Tex., Conroe—State Attorney General's Dept. approved issue of $25,000 bonds to build roads in Road Dist. No. 4, Montgomery County. Address County Clk., Conroe.

Tex., Dallas—City Comn. authorized paving portion Madison Ave., Oak Cliff, and Junius St., East Dallas. H. Moseley, City Engr.

Tex., Dallas—City plans paving portion Washington Ave., asphaltic concrete. H. Moseley, City Engr.

Tex., Dallas—Park Bd. plans extending Turtle Creek Parkway. About $10,000. H. Moseley, City Engr.

Tex., Denton—Denton County will vote Feb. 3 on $150,000 bonds to build roads. Address County Clk., Denton. Noted Sept. 7.

Tex., Memphis—City votes in April on $20,000 bonds to pave streets.

Tex., San Angelo—City election Jan. 7 to vote on $25,000 bonds to repave number streets. H. M. Garden, City Engr. Noted Dec. 21.

Tex., Waxahachie—Council passed resolution paving 5 mi. streets. About $160,000.

Okla., Bartlesville—Washington County defeated $600,000 bonds to improve roads. Address County Clk., Bartlesville. Noted Nov. 30.

Okla., Sapulpa—City receiving bids paving on Hobson, Mission, South Independence and West Lee St. R. N. Whittlesey, City Engr. Noted Nov. 23.

Okla., Stillwater—Payne County Comrs. plans road work. Address County Clk., Stillwater.

Wash., Seattle—King County receiving bids in January, G. E. Sylvester Rd. Address County Clk., Seattle.

Ore., Portland—City plans to improve Montana, Minnesota, Missouri and Michigan Ave. and Church, Jessup, Jarrett and Simpson St. P. H. Dater, City Engr.

Ore., The Dalles—Waco County Court Advisory Bd. made plans, soon receives bids road work next year. L. B. Fox, The Dalles, Clk. Noted Dec. 21.

Calif., Albany—City voted $20 000 bonds to pave San Pablo Ave.

Calif., Claremont—City Trustees receiving bids in January paving portion 1st St.

Calif., Los Angeles—Union Oil Co., California Union Oil Bld. soon receives bids paving portion of yards at 6th and Mateo St.

Bids In and Contracts Awarded

Mass., Methuen—Massachusetts Highway Comn., Boston, let contract section highway in Methuen to J. WAGONBOTH, Lawrence. Noted Nov. 30.

Ct., Stamford—City let contract 25,282 lin.ft. macadam highway on Long Ridge Rd. to F. VALERIO.

N. Y., Schenectady—Bd. Contract rejected bids paving Smith St. and 3d Ave.

N. J., Pennsgrove—City let contract paving portion Main St. to J. E. BURKE & CO.

Md., Baltimore—State Rds. Comn. 601 Garrett Bldg., let contracts as follows: Contract No. 10, Wicomico County, 1 section road from Powellville, concrete, about 3 mi. to Willards to BURGESS & DORRIE, Scottsville, Va., $40,000; Contract No. 15, Worcester County, 1 section road from Snow Hill about 2½ mi. toward Girdletree to MAJOR CONSTRUCTION CO., Pocomoke, Md., $40,000. Noted Nov. 16.

N. C., Salisbury—City let contract paving streets in Dist. No. 2 to CHARLOTTE PAVING CO., Charlotte. Noted Nov. 16.

Fla., Ft. Myers—Lee County, Rd. and Bridge Dist. No. 3 let contract to clear and grade road from Marco to Dade County line to J. B. McCRARY CO., Atlanta, Ga., $11,800.

Fla., St. Cloud—City let contract 11,000 sq.yd. paving to GEORGIA ENGINEERING CO., Augusta, Ga., $1.29½ per sq.yd. Noted Oct. 19.

Ala., Luverne—(Official)—Crenshaw County let contract improving 2 mi. Patsburg and Luverne Rd. and 3 mi. Honoraville Rd. to L. C. RAWLINSON, Luverne, 23c. per yd. Noted Nov. 23.

Miss., Canton—Madison County let contract 40 mi. earth roads and concrete culverts and pine bridge to OWENS CONSTRUCTION CO., Madison. Noted Nov. 30.

La., Lake Charles—(Official)—City let contract paving Miller Ave., Mill, Pine Moss and other streets, vibrolithic to DE JENSEY & MAFF, Lake Charles, $38,981. Noted Nov. 30.

Ky., Owensboro—(Official)—Davies County let contract Letchfield Rd. to MONTGOMERY PERKINS CO., Owensboro. Noted Dec. 7.

Ky., Owensboro—(Official)—Davies County Fiscal Court let contract St. Joseph, Hawesville and Rockport Rd. to MONTGOMERY PERMINS CO., Owensboro. Noted Dec. 7.

Ky., Williamsburg—Comrs. Whitley County let contract 17 mi. road to MASON CONSTRUCTION CO., Emanuel, $36,510.

Ohio, Ashtabula—City let contract paving, draining and curbing portion Main St. to T. F. FITZGERALD. About $14 180.

Ohio, Euclid—Village let contract improving North St. to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Nov. 9.

Ohio, Fremont—City let contract Medina Rd. to MODERN CONSTRUCTION CO. About $99,000.

Ohio, Medina—Medina County Comrs. let contract 1 mi. concrete on Barberton-Greenwich Rd. and 1,000-ft. concrete on North Homer-Spencer Rd. to CRAWFORD & LITTLE, Elyria.

Ohio, Norwalk—Huron County let contract 5 mi. New Medina Highway through Norwalk, Townsend and Hartland Townships to MODERN CONSTRUCTION CO., Fremont, about $98,808.

Ohio, Tiffin—City received low bid paving Washington St., asphalt, from Barber Asphalt Paving Co., $1.30 sq.yd.

Ohio, Youngstown—City let contract paving portion Alice St., brick, to MULLEN & QUINN, 436 East Federal St., Youngstown, $294,905. Noted Aug. 26.

Ohio, Youngstown—City let contract paving portion Oak Hill Ave. to S. H. DE GROODT, 127 East Woodland Ave., Youngstown, $6,133. Noted Nov. 30.

Ind., English—Crawford County Comrs. let contract road Sterling Township to MERRYMAN & FERGUSON Milltown. Noted Nov. 30.

Ind., Indianapolis—Bd. Pub. Wks. let contract improving Terrace Ave. to MARION COUNTY CONSTRUCTION CO., 1600 South West St., $2.70 per ft.

Ind., Kokomo—Howard County let contract road Howard Township to J. W. WATSON & CO., Kokomo, about $11,771.

Ind., New Albany—Floyd County Comrs. received low bids improving (a) Graysbrook Rd., (b) Ford Rd., from W. F. Woodruff, (a) $7,110, (b) $8,360; S. T. Gaines, (a) $7 050, (b) $8,500; J. D. Graninger, (a) $6,811, (b) $8,160. Noted Nov. 30.

Ind., Rockville—Park County Comrs. let contract improving roads in Adams and Raccoon Townships to W. P. HANNON, Rockville, D. BRITTON, Judson, Ind. L. W. DEVOTO, Rockville, W. PLATTEN & SON, Montezuma. Noted Nov. 30.

Ill., Franklin Grove—City let contract paving to PRONGER & FLETCHER, Blue Island, $8,170.

Wis., New London—City paving portion Wyoming and North Water St. by day labor. Noted Dec. 7.

Minn., Terry—City let contract gravelling road from Tracy to connect with Black and Yellow Trail to A. JENSEN.

Streets and Roads (Continued)

Kan., Beloit—City let contract 65,000 sq.yd. paving to McGUIRE & STANTON CONSTRUCTION CO., Leavenworth, $150,000. Noted Dec. 21.

Kan., Larned—City let contract 11 blocks brick paving to McCOY & TAYLOR. Noted Nov. 30.

S. D., Sioux Falls—Minnehaha County Comrs. let contract graveling 11 mi. 12th St. road through Wall Lake and Wellington Townships to E. GAGE & CO.

Tex., Brownwood—Brown County let contract roads to N. A. DAWSON, San Antonio. About $100,000. Noted Dec. 14.

Tex., Mt. Pleasant—City let contract improving several streets to GENERAL CONSTRUCTION CO., Ft. Worth, $24 574. Noted Sept. 7.

Okla., Drumright—City let contract paving streets to MUNICIPAL ENGINEERING AND CONSTRUCTION CO. Noted Nov. 16.

Okla., Oklahoma—City let contract paving portions Broadway and Walnut Ave. to PARKER-WASHINGTON CO., 23d and Penn St., Kansas City, Mo. About $20,000.

Idaho, Lewiston—City let contract 3 mi. Lake Waha Highway to G. H. KESTER, Lewiston, $5,000.

Calif., Berkeley—Council let contract paving portion University Ave. to COVAULT CO., Stockton, $62,205.

Calif., Berkeley—Council let contract paving portion San Pable Ave. to CLARK & HENRY, Stockton, $58,000. Noted Aug. 31.

Calif., Los Angeles—City let contract improving portion Allesandro St. to B. CRITES, 709 Higgins Blvd., $5,319.

Calif., Los Angeles—City let contract improving portion Echo Park Ave. to T. E. SHAFER, 220 South Bonnie Brae St., $4,497.

Calif., Los Angeles—City let contract improving portion Noe St. to D. L. BIENFIELD, Phelan Blvd. $8,914.

Calif., Los Angeles—City received low bid paving portion 48th St. from California-Arizona Construction Co., grading, 3.5c. sq.ft.; 15.4c. sq.ft. warrenite paving; 35c. lin.ft. cement curb; 12c. sq.ft. cement sidewalk; 17.5c. sq.ft. concrete gutter; 40c. sq.ft. granite block gutter; $2,635 culverts. Noted Nov. 23.

Calif., Los Angeles—T. E. Shafer, 1327 Waterloo St., submitted low bid improving Florence Ave. Rd., Impvt. Dist. No. 120, $6,849.

Calif., San Francisco—City let contract paving portion Clayton St. to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco about $16,946. Noted Dec. 14.

Calif., San Francisco—Bd. Pub. Wks. let contract improving portion Evans Ave. to K. EHRHART, 660 Market St., $52,593.

Calif., Visalia—City let contract improving portion East and School St. to CLARK & HENRY CONSTRUCTION CO., San Francisco, 12.9c. lin.ft. topeka asphalt on concrete base; 30c. lin.ft. concrete curb; 18c. lin.ft. gutter.

Calif., Visalia—City let contract improving portion East Main St. to CLARK & HENRY CONSTRUCTION CO., San Francisco, 11.4c. sq.ft. topeka asphalt paving on concrete base; 30c. ft. curb; 18c. concrete cutter $1 lin.ft. corrugated iron iron culverts. Noted Oct. 15.

Ont., Toronto—Bd. Pub. Wks. let contract asphalt paving on Hastings St. to R. H. HARRIS. About $7,627. Noted June 1.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—A. O. Norton, Inc., 286 Congress St., Boston, making plans 1-story, 85x335-ft. machine shop and office building at Brookline Ave. and Smyrna St. About $75,000. J. T. Ball, 39 Rosedale St., Dorchester, Arch.

Mass., Chicopee—Metals Production Equipment Co., plans additions. About $16,000.

Mass., Lawrence—Lawrence Development Corp. plans 4-story, 50x100-ft. textile mill. About $100,000. Ashton & Huntress, 477 Essex St., Arch.

R. I., Woonsocket—Falls Yarn Mills plans 1-story, 50x150-ft. addition to mill. About $10,000. W. F. Fontaine, 285 Main St., Arch.

Ct., Hartford—Underwood Computing Machine Co., Chamber of Commerce Bldg., plans new factory on Hawthorne St., 4-stories. Bids soon. A. N. Lattin of Underwood Typewriter Co. made plans.

Ct., Springfield—Buchholz Sign Co. purchased land on Talcott St. and will build factory.

Ct., Waterbury—New Haven Dairy Co. making plans 3-story, 67x73-ft. dairy building. F. E. Brown, 47 Orange St., Arch. C. G. Morris, 147 Temple St., New Haven, Pres.

N. Y., Newburgh—Chamber of Commerce made plans 1- and 2-story, 50x150-ft. factory. About $50,000. J. S. Ladow, 348 Church St., Poughkeepsie, Arch.

N. Y., New York—(Brooklyn)—(Official)—A. B. Brown Co., 514 West 46th St., Manhattan, soon receives bids 2-story, 50x98-ft brick factory, Lexington and Marcy Ave. About $12,500. T. J. Erb, Arch.

N. Y., New York—(Brooklyn)—G. Gruber, 14 Moore St., made plans 2-story, 49x100-ft. brick garage and office building, De Kalb and Tompkins Ave. About $20,000. M. Zipkes & H. Wolfe 405 Lexington Ave., Manhattan, Archs.

N. Y., New York—(Brooklyn)—J. Hemondinger & Sons, 42 Russell St., made plans 2-story, 96x100-ft. factory. About $12 000. H. Dorf, 614 Kosciusko St., Brooklyn, Arch.

N. Y., New York—(Manhattan)—C. A. Bruhns, 152 Amsterdam Ave., making plans 4-story, 50x100-ft. brick and steel garage, 225-27 West 66th St. About $35,000. L. A. Sheinart, 194 Bowery, Arch.

N. Y., New York—(Manhattan)—(Official)—Mills Hotel Trust, 15 Broadway receiving bids 5-story, 21x98-ft. warehouse at 153 West 36th St. About $50,000. F. H. Whittemore, Arch.

N. Y., New York—(Manhattan)—(Official)—M. G. Taddonio, 30 East 42d St., soon receives bids 2-story, 50x100-ft. brick warehouse at 405 East 109th St. About $27,000. J. P Whisdeman, 30 East 42d St., Arch.

N. Y., New York—(Manhattan)—Washington Heights Ice Corp. making plans plant at 168th St. and Jumel Pl. Star Engineering Co., 90 West St., Arch.

N. Y., New York—(Queens)—Pierce Motor Realty Corp. made plans 1-story, 100x150-ft. addition. Griffin & Wynkoop, 30 Church St., Manhattan, Arch. Noted Mar. 9.

N. Y., New York—(Queens)—(Official)—Simplex Automobile Co., 60 Broadway, Manhattan, receiving bids 1-story, 100x200-ft. addition to garage, 12th St., Long Island City. About $25,000. F. Y. Parsons, 1133 Broadway, Manhattan, Arch.

N. Y., Solvay—Pass & Seymour, Inc., made plans 3-story, 60x200-ft. factory. Russell & King, 602 Snow Bldg., Syracuse, Arch. Noted July 27.

N. Y., Syracuse—Onondaga Pottery Co., 1858 West Fayette St., plans 1- and 4-story, 88x208-ft. warehouse consisting of 3 buildings. Russell & King, 602 Snow Bldg. Syracuse, Arch.

N. J., Atlantic City—C. Parker made plans 2-story factory. About $10,000. F. E. Hahn, 1112 Chestnut St., Phila., Pa., Arch.

N. J. Harrison—Reuther Bros. plan 1-story, brick foundry on Manor Ave. H. L. Scudder, Jr., Essex Bldg., Newark, Arch.

N. J., Kearny—(Arlington post office)—North American Copper Co., 52 Vanderbilt Ave., New York, N. Y., having plans made plant on Hackensack River. Noted June 8.

N. J., Newark—New York & New Jersey Express Co., care of S. B. Signor, 309 Broadway, New York, making plans warehouse and cold-storage building. A. F. Guilbert, 80 Maiden Lane, New York, Arch.

N. J., Oxford—Oxford Dye Works, Belvidere Ave., made plans 1-story brick dye house, $10,000. C. W. Ellenberger, Hampton, Arch.

N. J., Passaic—New Jersey Engineering & Supply Co., having plans made 4-story, 56x120 ft. brick and steel warehouse at 177-181 Main Ave. M. R. Strong, 7 Wall St., New York, N. Y., Arch.

Pa., Macungie—Macungie Brass Mfg. Co. plans enlarging its plant.

Del., Wilmington—P. Hutchison, 705 Market St., making plans, 4-story, 110x200-ft. storage and warehouse. About $200,000. J. D. Thompson, Ford Bldg., Arch.

Md., Curtis Bay—(Baltimore Post Office)—Curtis Bay Distilling Co., plans concrete grain elevator, $1,000,000.

Md., Sollers—Aluminum Ore Co., East St. Louis, Ill., all stock owned by Aluminum Co. of America, Pittsburgh, plans plant to manufacture anhydrate of aluminum from bauxite ore. About $700,000.

Va., Lynchburg—Sanitary Dairy plans 132x188-ft. brick and concrete dairy. About $15,000. McLaughlin & Johnson, Arch.

Va., Staunton—Home Building and Loan Association plans garage at Baldwin and Central Ave. to be occupied by Central Garage. About $25 000.

Va., Suffolk—Norfolk & Western Ry. plans brick and concrete warehouse at freight station. J. E. Crawford, Roanoke, Ch. Engr.

W. Va., Kanawha—(Charleston Post Office)—American Bottle Co. plans $2,000,000 plant at Kanawha.

N. C., Charlotte—Neverdarn Hosiery Mills, recently incorporated, plans 1-story, 50x200-ft. brick mill. About $75 000. C. D. Custer, 201 West 1st St., interested.

N. C., Gastonia—Ranlo Manufacturing Co. plan mill. About $500,000. C. M. Dunn, interested.

N. C., Wilmington—Carolina Packing Co. making plans 88x146-ft. plant, rein.-con. and brick. About $90,000. C. L. Brooks Engineering Co., Moultrie, Ga., Engr. Noted Nov. 16.

N. C., Winston Salem—Liberty Storage Co., recently organized with $250,000 capital stock, acquired plant and grounds Salem Iron Works and will build five 3-story buildings. C. D. Cromer, Secy.-Treas.

S. C., Charleston—Valk & Murdock Iron Works purchased land and will erect shipyards, foundry, machine shop, etc.

Ga., Savannah—Savannah Abattoir and Packing Co., recently incorporated with $100,000 capital stock, purchased 12-acre site and will build plant. S. Friedman and A. Mandel, interested.

Fla., Plant City—Kilgore Seed Co. plans 2-story brick warehouse and office building.

Miss., Meridian—C. F. Massey Co., 122 South Michigan Ave., Chicago, purchased site at junction Alabama & Vicksburg and Meridian & Memphis R.R. rein. cement plant for building bridges, pilings, oil and signal houses, etc. About $45,000.

La., Harvey—Penick & Ford, New Orleans, plans cold-storage warehouse at Harvey. About $75,000.

Ky., Lexington—C. Knight, Louisville, and associates, plan commercial fertilizer plant.

Ohio, Alliance—Buckeye Twist Drill Co. plans to increase its capital stock from $150,000 to $1,000,000 and will enlarge plant.

Ohio, Alliance—Transue Williams Steel Forging Co. plans addition to forge shop. G. S. Rider Co., Century Bldg., Cleveland, Arch.

Ohio, Berea—Fox Novelty Co. plans to rebuild factory. About $25,000.

Ohio, Canton—Canton Sheet Steel Co. plans to enlarge plant. About $500,000. C. A. Ervine, Gen. Mgr.

Ohio, Canton—Stark Rolling Mill Co. making plans 7 mills.

Ohio, Canton—Zehner Metal Sash and Door Co. will rebuild plant. About $100 000.

Ohio, Cincinnati—Corcoran Manufacturing Co., 4634 Spring Grove, plans factory, Ammen Ave. and Baltimore & Ohio Southwestern R.R. About $125,000.

Ohio, Cincinnati—A. M. Lewin Lumber Co., Dana Ave. plans addition. About $40,000.

Ohio, Cincinnati—Longview Hospital for Insane soon receives bids 2-story, 60x80-ft. abattoir. About $30,900. Elzner & Anderson, 135 Ingalls Bldg., Arch.

Ohio, Cleveland—Akron Sewer Pipe Co., Akron, purchased site on New York Central right-of-way distributing station.

Ohio, Cleveland—American Box Co., 1932 West 3d St., plans plant. About $50,000.

Ohio, Cleveland—Domestic Wet Wash Laundry Co., 7189 Lorain Ave., made plans 1-story, 70x135, laundry. $15,000. W. H. Smith, Union Bldg., Arch. Noted Dec. 21.

Ohio, Cleveland—Harris Auto Press Co., plans factory on Belt Line and East 9th St., New Burgh Heights. About $10,000.

Ohio, Cleveland—Landesman Hirschheimer Co., 1323 West 9th St., making plans, receives bids in spring, 4- or 5-story factory on Superior Ave., N.E. About $300,000. B. Lowenstein, 1327 West 9th St., Pres. Noted Oct. 26.

Ohio, Cleveland—Michigan Smelter Co., Detroit, Mich., purchased site on Jennings Rd. factory. About $25,000. H. E. Level, 707 Electric Bldg., Local Rep.

Ohio, Cleveland—G. H. Miller, formerly of Champion Stove Co., plans plant to manufacture products for general jobbing foundry business, State Rd. About $50,000.

Ohio, Cleveland—National Malleable Casting Co., 7706 Platt Ave., made tentative plans 1-story brick and steel foundry, Quincy Ave. and Woodhill Rd.

Ohio, Cleveland—Pee-Chee Cleaner Manufacturing Co., 3726 Central Ave., purchased land on St. Clair Ave., and will build factory.

Ohio, Cleveland—Steel Car Co. recently incorporated, purchased site plant. About $500 000. P. H. Joyce, Pres.

Ohio, Cleveland—T. M. Swetland, 904 Park Bldg., leased site at Payne Ave. and East 17th St. to build manufacturing or commercial building. About $35,000.

Ohio, Cleveland—Union Salt Co., Addison Rd. and New York Central Ry., making preliminary plans 1st unit of group of buildings. W. J. Carter, Engineers Illuminating Bldg., Engr.

Ohio, Columbus—F. E. Powell, 1392 East Broad St., receiving bids Jan. 1, 2-story, 25x87-ft. salesroom, garage and store building. About $50,000. M. Peterman, Gobey Bldg., Arch.

Ohio, Hamilton—Columbia Machine Tool Co., recently incorporated with $50,000 capital stock, plans plant. F. E. Goldsmith, F. B. Ming and A. Waldburg, of Suramic Machine Co., interested.

Ohio, Marietta—H. Stevenson, German Bank Bldg., plans 3-story plant. About $20,000. E. J. Weed, German Bank Bldg., Arch.

Ohio, Midland—Crucible Steel Co., of Midland, plans new plant to manufacture castings.

Ohio, Springfield—U. S. Kelly Co. plans fireproof factory.

Ohio, Toledo—Berry Packing Co., recently organized, plans plant. About $40,000. D. A. Berry, interested.

Ohio, Toledo—Cincinnati, Hamilton & Dayton Ry. and Baltimore & Ohio Railroad Co. plan refrigerating plant in Toledo. About $250,000. F. L. Stuart Baltimore, Consult. Engr. former railway and R. N. Begien, Baltimore, Ch. Engr. latter.

Ohio, Toronto—American Sewer Pipe Co. plans plant. About $55,000.

Ohio, Wilmington—Clinton County Lumber Co., Washington, C. H. made plans 2-story storage building.

Ind., Evansville—Graham Glass Works plans additions to its plant. M. J. Owens, Gen. Mgr.

Mich., Detroit—Buhl Sons & Co., Wight and Adair St., made plans warehouse, main building

Industrial Works (Continued)
4-story, 30x402-ft., crane building 2-story, 80x 402-ft., warehouse 2-story, 65x402-ft., dock 480 ft. long. J. Scott & Co., 2326 Dime Bank Bldg., Arch. Noted Nov. 30.

Mich., Detroit—Parisian Laundry Co., making plans laundry and power plant. Taylor & Waltz, 1144 Kresge Bldg., Arch.

Mich., Ecorse—International Tube and Sheet Mills purchased land and will build factory. H. K. Flagler, Pres.

Mich., Rochester—Detroit United Railway Co., purchased land, plans car house; also enlarging freight and express facilities. H. Bullen, Interurban Bldg., Detroit, Gen. Supt.

Ill., Chicago—Chapell Ice Cream Co., 2500 Fullerton St., making plans 1- and 2-story plant. About $100,000. F. R. Shock Arch.

Ill., Chicago—Chicago Malleable Castings Co., 1219-25 West 120th St., plans 2-story brick factory. About $15,000. A. C. Coffin, Arch.

Ill., Chicago—Clemetson Co., 2607 Flournoy St., plans factory, West Division St. and Himan Ave., main building to be 3-story, 75x276-ft. W. Tomlinson, 64 East Van Buren St., Arch.

Ill., Loda—Risser & Rollins plans rebuilding grain elevator recently destroyed by fire.

Wis., Milwaukee—Milwaukee Journal Co., 182 4th St., made plans 3-story, 51x150-ft. addition. About $50,000. Klug & Smith, Mack Bldg., Engr. F. Howend, Arch. and Engr. Noted Dec. 21.

Wis., Milwaukee—H. J. Rock, 485 11th Ave., soon lets contract auto truck factory and office building. About $50,000.

Wis., Milwaukee—Standard Racine Rubber Co. making plans garage, tire repair and store building. About $90,000. O. C. Uehling, 509 First National Bank Bldg., Engr.

Ia., Council Bluffs—Armour & Co., 1301 Jones St., Omaha, Neb., plans being made, grain elevator.

Ia., Council Bluffs—Updike Grain Co., 240 Omaha National Bank Bldg., Omaha, Neb. plans being made, grain elevator, cap. 1,500,000 bu.

Ia., Farragut—Farmers' Elevator Assoc. plans. About $10,000. T. Spear, Pres.

Ia., Sioux City—Arthur & Co., Omaha, made plans 5-story, 96x128-ft., rein.-con. sheep killing and oleo plant. About $200 000.

Minn., St. Paul—Federal Grain and Elevator Co. made plans elevator. About $150,000. R. J. Johnstone, Mgr. Noted Aug. 31.

Minn., St. Paul—Seeger Refrigerator Co., Arcade and Wells St., plans 4-story, 60x120-ft., rein.-con. warehouse. J. A. Seeger, Pres.

Neb., Omaha—Kirschbraun & Sons, 1209 Howard St., plans 4-sory creamery and cold-storage plant. About $150,000.

Neb., Paxton—Farmers' Elevator Co. making plans grain elevator.

S. D., Sioux Falls—J. Morrell & Co., Ltd., plans 2-story brick and stone packing plant, east side Weber Ave. About $25,000.

Mont., Conrad—Power-Wilson Co. will rebuild plant. About $80,000.

Mo., Kansas City—Brass and Metal Manufacturing Co. receiving bids Jan. 1 additions.

Tex., Butler—Butler Bros. plans 8-story addition. A. M. Mason, Local Mgr.

Tex., Ft. Worth—Binyon-O'Keefe Storage Co. plans 6-story, rein.-con. storage warehouse. About $50,000. Sanguinet & Staats, Arch.

Tex., Galveston—Pierce Oil Corp., 420 Olive St., St. Louis, Mo., plans plant. About $100,000.

Tex., San Antonio—Breeden-Runge Co., Cuero, plans warehouse in San Antonio. About $30,000.

Tex., Vidor—Schneider Bros., Pearl River, La., plans brick plant at Vidor.

Okla., Oklahoma—Letts Box Veneer and Cooperage Co., 1800 West Main St., plans 4-story, 25x130-ft. brick addition.

Utah, Murray—Miller-Cahoon Auto Co. plans 2-story building. About $10,000.

Wash., Seattle—A. J. Capron, Ainsworth Bldg., Portland, Ore., representative of Goheen Manufacturing Co., Canton, Ohio, announced that company purchased site on South Waterway paint factory. About $250,000.

Wash., Tacoma—Todd Shipbuilding and Dry Dock Corp. purchased site 100 acres on tidelands plant and dock.

Ore., Portland—Goheen Manufacturing Co., Canton, Ohio, plans paint factory to consist 4 buildings. About $225,000.

Calif., Huntington Park—Axelson Machine Co., 1406 North San Fernando Rd., Los Angeles, soon lets contract plant on 10-acre site for manufacturing pumps and lathes.

Calif., Los Angeles—Baker Iron Works, North Broadway and Castelar St., plans 100x300-ft. steel and corrugated iron addition. About $65,000.

Calif., Los Angeles—Eisenhuth Motor Co. applied to Harbor Comn. lease on site of 70 acres at Los Angeles Harbor to build manufacturing plant. About $10 000,000. J. W. Eisenhuth, Angelus Hotel, Pres.

Calif., San Francisco—H. N. Cook Belting Co., Fremont and Howard St., made preliminary plans 1-story factory. Ward & Blohme, Alaska Commercial Bldg., Arch.

Que., Quebec—Harbor Comn. granted permit warehouse. About $585,000.

Que., St. Hyacinthe—L. O. Grothe, Ltd., 556 St. Lawrence Blvd., Montreal, soon receives bids factory addition. About $25 000.

Ont., Arnprior—J. Munro, Pembroke, plans factory at Arnprior. About $10,000.

Ont., Bracebridge—Beacon Match Co. plans plant. About $45,000.

Ont., Elmira—Consolidated Rubber Co., Kitchener, making plans factory at Elmira. About $50,000.

Ont., Hamilton—Canadian Desmond Stephen Manufacturing Co., 44 Market St., plans new factory. About $50,000.

Ont., Lindsay—Flavelles, Ltd., making plans rebuilding cold-storage and produce plant. About $75,000. M. Cooper Co., New York, Arch. Noted Dec. 7.

Ont., Owen Sound—Keenan Woodenware Co. plans 2 factory buildings. About $50,000.

Ont., Toronto—T. Daville granted permit factory. About $11,800.

Man., St. Boniface—W. Gallaway Co., Waterloo, Ia., plans plant at St. Boniface in spring. J. B. Payne, Winnipeg, Local Mgr.

Man., Winnipeg—R. A. Lister & Co., Galt Bldg., making plans factory. About $50,000. Fingland & Hanford, Enderton Bldg., Arch.

Sask., North Battleford—Imperial Oil Co., Sarnia, Ont., plans plant. About $20,000. J. McTavish, 104 4th St., N., Saskatoon, Local Mgr.

Sask., Saskatoon—Adams Bros. Harness Manufacturing Co., Ltd., McDermott Ave. E., Winnipeg, Man., plans factory in spring. About $125,000.

B. C., Vancouver—Canadian Pacific Ry. plans to spend between $10,000,000 and $15,000,000 grain elevators and additional terminal facilities at Vancouver. W. E. Woodhouse, Montreal, Ch. Engr.

B. C., Vancouver—Dominion Glazed Pipe Co., Front St., plans new plant to manufacture sewer pipe. About $50 000.

Bids In and Contracts Awarded

Me., Sanford—Springvale Shoe Works let contract 4-story, 40x45-ft. addition to J. CLARK & SONS, Kennebunk. About $10,000.

Mass., Adams—Renfrew Manufacturing Co. let contract addition to FLYNT BUILDING AND CONSTRUCTION CO., Palmer.

Mass., Boston—(Jamaica Plain)—Sturtevant Aeroplane Co., Williams St., let contract 1-story, 86x128-ft. brick aëroplane shed to WHITCOMB & KAVANAUGH CO., 6 Beacon St., Boston. About $14,000.

Mass., Brockton—W. W. Cross & Co., Inc., let contract addition factory to G. H. HOWARD & SONS CO., 633 Warren Ave. About $10,000.

Mass., Gloucester—Ipswich Mills let contract 4-story factory to FISKE-CARTER CONSTRUCTION CO., 11 Foster St., Worcester. Noted Nov. 30.

Mass., Sharon—Bay State Film Co., 70 State St., let contract 2-story, 37,200-ft. 2 ells, 40x40-ft. to McDONALD & KIVELL, 153 Milk St., Boston.

R. I., Central Falls—Glenlyon Dye Wks. let contract 2-story, 50x60-ft. storehouse to A. F. SMILEY, Oak Hall Bldg., Pawtucket, $10,000.

R. I., Hillsgrove—Rhode Island Malleable Iron Works, Providence, let contract addition at Hillsgrove to C. E. CARLSON, 66 Congress Ave. Noted Nov. 30.

R. I., Newport—Hattub Bros., Bridge St., let contract 1-story, 50x100-ft., 3-story, 50x70-ft. ice and storage building to R. LYNCH, 67 Mill St., Newport. About $20,000.

R. I., Woonsocket—Woonsocket Rubber Co. let contract 3-story factory to FISKE-CARTER CONSTRUCTION CO. 11 Foster St., Worcester.

Ct., Hartford—Standard Mattress Co. let contract 3-story, brick factory on North St. to C. SEIGEL.

Ct., Meriden—Waterbury Farrell Foundry and Machine Co., Bank St., let contract addition to H. WALES LINES CO., Meriden.

Ct., New Britain—Landers, Frary & Clark let contract 3-story, 73x238-ft. addition, Elm St., to ABERTHAW CONSTRUCTION CO., Boston. Noted Dec. 14.

Ct., New Haven—Semon Ice Cream Corp. let contract 2-story, 42x42x45-ft. addition to D. H. CLARK CO., 166 Brewery St. About $50,000.

N. Y., Lockport—Harrison Manufacturing Co., let contract 2-story factory at Elm and Walnut St. to AMERICAN CONCRETE STEEL CO., 27 Clinton St., Newark, N. J., $250,000.

N. Y., New York—(Brooklyn)—Cluck Bros., Maujer and Lorimer St., let contract 3-story, 25x100-ft. warehouse to I. E. JERSEY, 62 Williams St., New York. About $15,000. Noted Nov. 16.

N. Y., New York—(Manhattan)—Appleby Estate, 135 Broadway, let contract rein.-con. garage at 12th Ave. and 57th St. to F. T. LEY & CO., 52 Vanderbilt Ave., $80,000. Noted Jan. 27.

N. Y., New York—(Manhattan)—New York Ice Co. of Maine, 80 Madison Ave., let contract piling brick and steel plant at Burling Slip and Pearl St. to RAYMOND CONCRETE PILE CO., 90 West St.

N. Y., Phelps—Bennett Corp., care of W. J. Bennett, Sietz Bldg., Syracuse, let contract cement plant to WALSH CONSTRUCTION CO. Davenport, Ia. About $1,250,000. Noted Dec. 7.

N. Y., Rochester—Bartholomew Brewing Co., 555 St. Pauls St., Rochester, let contract 3-story, 62x68-ft. storage building to H. STALLMAN & SONS, 58 Builders' Exchange. About $38,000.

N. Y., Rochester—Rochester Tallow Co., care of A. Shade, Rochester, let contract 2-story, 41x60-ft. cooler building to A. FREDERICHS & SONS CO., Lake Ave., Rochester. About $15,000. Noted Oct. 26.

N. J., Elizabeth—National Metal Coating and Lithographing Co. let contract addition factory to V. C. HARDING, 594 Monroe Ave.

N. J., Jersey City—O. Havez, 246 Cornelison Ave., let contract 2-story mill on Cator Ave. to J. GORNITZKY, 312 5th St., $10,000.

N. J., Keasbey—German-American Stoneware Wks. let contract 2-story, 60x60-ft. addition to TURNER CONSTRUCTION CO., 11 Broadway, New York. About $20,000.

N. J., Newark—Newark Rivet Wks., 262 Lafayette St. let contract 1-story, 52x78-ft. addition to storage building to SALMOND BROS. CO. 526 Elm St., Arlington. About $11,000.

N. J., Passaic—Merrick Scale Co., 223 Main Ave., let contract 1-story, 75x85-ft. plant to ROOSMA BROS., 400 Highland Ave., Passaic. About $20 000. Noted Nov. 9.

N. J., Perth Amboy—Roessler & Hasslacher Chemical Co., Front St., let contract 1-story, 60x130-ft. storage house to AUSTIN CO., 26 South 15th St., Phila., Pa. About $20,000.

N. J., Perth Amboy—Roessler & Hasslacher, Chemical Co. let contract 2-story factory to STONE & WEBSTER CORPORATION, 147 Milk St., Boston, Mass., $50,000.

N. J., Spa Springs—(Woodbridge post office)—New Jersey Glue Co., let contract 1-story factory to J. A. JOSEPHSON, 13 Stanton Court, Rahway. Noted Jan. 6.

Pa., Erie—Erie City Iron Wks., East Ave. and New York Central R.R., let contract 1-story, 38,229-ft. addition to H. SHENK CO., 12th St. and Sassafrass Ave. About $24,000.

Pa., Johnstown—M. Schoenfeld let contract garage to W. H. SMITH SONS, Hornerstown Boro., Johnstown. About $20,000.

Pa., Lancaster—Lancaster General Hospital let contract 1-story, 44x54-ft. laundry to H. WOHLSEN, Woolworth Bldg., Lancaster. About $10,000. Noted Sept. 7.

Md., Baltimore—Baltimore & Ohio Railroad Co. to build addition to storehouse at Mt. Clare shops on West Pratt St. by company forces under supervision of J. L. Crothers, master carpenter of company. About $16,000.

Md., Lonaconing—Lonaconing Glass Co. let contract plant to O. GERLACH, Frostburg.

Va., Lynchburg—S. H. Franklin let contract 1- and 2-story, 61x120-ft. bottling plant to C. W. HANCOCK & SONS, $10,000.

Va., Norfolk—J. E. Etheridge Lumber Co. let contract 1-story, 100x130-ft., 25x34-ft. addition to NASH-JONES CO., 72 Law Bldg., Norfolk. About $17 000.

Va., Norfolk—M. Heflein, 426 Grandby St., let contract 2-story, 50x75-ft. warehouse to TRAVERS, WOOD CO. About $65,000.

W. Va., Charleston—A. Klipstein & Co. let contract 4-story, 58x120-ft. refrigerating plant to W. L. CROW CONSTRUCTION CO., 103 Park Ave., New York. Noted Nov. 30.

W. Va., Lewis—Roessler & Hasslacher Chemical Co., Perth Amboy, N. J., let contract plant to C. W. McNULTY CO., Charleston. About $1,000,000.

W. Va., North Mountain—Staunton Clay Products Co., Newark, Ohio, plans to build 45x90-ft., 80x96-ft. and 46x720-ft. by day labor. C. H. Forry, Newark, Ohio, Vice-Pres. and Mgr. Noted Dec. 21.

N. C., Gastonia—W. E. Todd let contract 2-story bakery to J. B. BEAL, $10,500.

Ala., Guin—B. E. Kenney Lumber Co., Frankfort, Ky., let contract dry kiln to L. MOORE DRYKILN CO., Jacksonville.

La., New Orleans—Union Stockyards Co. let contract stockyards and slaughter house to L. FAVROT, about $100,000.

Tenn., Binghamton—Chickasaw Cooperage Co., Memphis, let contract rebuilding plant to L. T. LINDSEY, Memphis.

Tenn., Chattanooga—Southern Pharmaceutical Co., Nashville, let contract 3-story laboratory on Main St. to C. H. HOWELL, $30,000.

Tenn., Johnson City—Johnson City Hosiery Mills let contract additions to T. S. MOULDY & CO., $20,000. Noted Nov. 16.

Ky., Winchester—Love Foundry and Machine Co. let contract rebuilding foundry to W. E. SINGLETON, Winchester.

Ohio, Cincinnati—Auto Tire and Repairing Co., 13th and Race St. let contract 2-story shop to F. SCHMIDT, $18,000. Noted Nov. 9.

Ohio, Cleveland—Cleveland Steel Car Co. let contract 1-story, 60x200-ft. addition to DUCHON BROS., 5809 Outhwaite Ave., Cleveland.

Ohio, Cleveland—Gutscher Sausage Co. let contract factory to H. TALMAN, 7010 Hope Ave. About $10,000.

Ohio, Cleveland—Ohio Varnish Co., 8004 Kinsman Rd. let contract 3-story addition to STEMPLE CONSTRUCTION CO., 3325 Scranton Rd. About $25,000.

Industrial Works (Continued)

Ohio, Warren—Warren City Tank and Boiler Co. let contract 1-story, 60x250-ft. warehouse to A. CLEWES, Niles. About $15,000. Noted July 6.

Ohio, Youngstown—Youngstown Towel and Supply Co., 27 West Commerce St., let contract 2-story, 23x100-ft. laundry to M. KATZMAN, Youngstown. Noted Oct. 19.

Ind., Indianapolis—Peerless Foundry Co. let contract 4 buildings to G. A. WEAVER, about $35,000. Noted Nov. 23.

Mich., Detroit—Edmund & Jones Corp., let contract 1-story, 90x165-ft. storage building to D. WESLEY, 424 Morrell St. About $10,000.

Mich., Detroit—Rockwood Silica Sand Co. let contract 4 storage tanks to SMITH-SPARKS CONSTRUCTION CO., Houghton.

Mich., Detroit—Studebaker Bros. let contract 5-story, 80x260-ft. addition to plant at Campau St. and Scottem Ave. to J. STEWART CO., 30 Church St., New York. Noted June 8.

Mich., Flint—Weston Mott Co. Hamilton and Industrial St., let contract 175x360-ft. addition factory to W. E. WOOD CONSTRUCTION CO., 1805 Ford Bldg., Flint.

Mich., Port Huron—Morton Salt Co. let contract 1-story, 157x189-ft. grainer building to J. J. O'SULLIVAN & SONS, Water St., Port Huron.

Ill., Chicago—J. C. Deagan, Inc., let contract 1-story, 50x157-ft. storage and manufacturnig building to ANDERSON & STRANDBERG, 19 South La Salle St., $12,000.

Wis., Milwaukee—Industrial Controller Co. let contract addition to E. STEIGERWALD & SONS, 2303 Galena St. Milwaukee. Noted Sept. 28.

Wis., Milwaukee—Progressive Metal Co., Barclay and Washington St., let contract 3-story, 140x160-ft. warehouse to P. RIESENS & SONS, 1018 Humboldt Ave. About $40,000. Noted Dec. 14.

Minn., Minneapolis—Cargill Elevator Co. let contract 30 grain storage tanks, 1,000,000-bu. capacity, to J. STEWART & CO., 110 South Dearborn St., Chicago, Ill.

Minn., Minneapolis—W. Hood Dunwoody Industrial Institute 4th Ave., S., and 11th St., let contract 2 shop buildings to PIKE & COOK CO., 416 South 5th St.

Minn., Minneapolis—Ninth St. Holding Co. let contract laundry, 909 Mary Pl., to M. SCHUMACHER, 39 Dell Pl.

Minn., Minneapolis—Skellet & Co., 201 Sbuth 5th St., let contract warehouse, 261 6th Ave., S., to J. LECK CO., 316 South 7th St. About $150,000. Noted Dec. 14.

Minn., Minneapolis—H. L. Whitted let contract 2-story garage and salesroom to E. WILLIAMS CONSTRUCTION CO., 830 Hennepin Ave. About $25 000.

Mont., Butte—Shiner—Kelly Co., East Iron St., let contract 3-story warehouse to J. P. FINNEGAN.

Mo., St. Louis—Scullen Steel Co. let contract 1-story, 80x83-ft. addition to FRAIN-COLNON CONSTRUCTION CO., Laclede Bldg., St. Louis. About $85,000.

Tex., Beaumont—E. L. Wilson Hardware Co. let contract 2-story, rein.-con. warehouse to J. S. MERIWEATHER. About $70,000. Noted June 1.

Tex., Ft. Worth—Nissley Creamery Co. let contract 2-story plant to W. C. HEDRICH CONSTRUCTION CO. About $60,000. Noted Dec. 7.

Tex., Ft. Worth—J. M. Vincent let contract 2- or 3-story garage to BRYCE BUILDING CO., about $50,000. Noted Dec. 21.

Okla., Oklahoma—Oklahoma City Mill and Elevator Co. let contract 9 concrete tanks grain storage to BURRELL ENGINEERING AND CONSTRUCTION CO., 323 South La Salle St., Chicago, about $35,000. Noted Dec. 21.

Okla., Shawnee—Atchison, Topeka & Santa Fe Ry. let contract machine shop to NELSON & SON, 614 South Michigan Ave., Chicago.

Calif., Los Angeles—Joannes Bros., 819 East 1st St., let contract 5-story, rein.-con. warehouse to LEONARD & PECK, H. W. Hellman Bldg., about $75 000. Noted Oct. 26.

Calif., Los Angeles—Los Angeles Shipbuilding Co. negotiating with Harbor Comn. lease on Los Angeles Harbor plant to include shops, buildings and wharves. About $750,000. Work to be done by day labor. E. G. Eckstrom, 237 I. W. Hellman Bldg., Rep.

Calif., Los Angeles—Supreme Baking Co., 401 North Ave., let contract bakery to F. GRAVES & SON, Builders' Exchange, about $65,000.

Calif., San Francisco—L. Gillig, Post and Franklin St., let contract auto salesroom and garage to BARRETT & HILP, Sharon Bldg., San Francisco, about $45,000. Noted Dec. 7.

Calif., South Vallejo—(Vallejo post office)—Sperry Flour Co. let contract mill and elevators to DINWIDDIE CONSTRUCTION CO., Crocker Bldg., San Francisco. Noted Oct. 12 under Vallejo.

N. B., St. John—Dept. Railways and Canals, Ottawa, let general contract elevator to FEGLES-BELLOWS ENGINEERING CO., Ft. William; foundations to ENGINEERS AND CONTRACTORS, LTD., St. John. About $250,000. Noted Sept. 14.

Que., Granby—Granby Chair Co. let contract addition to A. KENT. About $10,000.

Que., Montreal—F. W. Horner, Ltd., 142 St. Urbain St., let contract factory to MUNN & SHEA, 67 Cuthbert St. Noted Oct. 26.

Que., Pointe-aux-Trembles—Parlor Furniture Manufacturing Co., Ltd., let contract factory to A. CHOQUETTE, 170 Bourbonniere St.

Ont., Hamilton—Hamilton Steel Wheel Co. let general contract temporary factory to CANADIAN ENGINEERING CO. Noted Nov. 2.

Ont., St. Catherines—St. Catharines Steel and Metal Co. let contract factory to NEWMAN BROS., 75 St. Paul St.

Ont., Thorold—Exolon Co. let steel contract on new $100,000 addition to STANDARD STEEL CONSTRUCTION CO., Welland.

Ont., Trenton—Imperial Munitions Bd. let contract factory buildings to PRATT ENGINEERING AND MACHINERY CO., 61 Broadway, New York.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., Waterloo—Post Office—James A. Wetmore, Act. Superv. Arch., Treasury Dept., receiving bids Jan. 26. Noted July 6.

Md., Indianhead—Buildings—Bureau of Yards and docks, Navy Dept., Washington, D. C., receiving bids Jan. 15, 6 buildings, Naval Proving Ground, Indianhead.

La., New Orleans—Bulkhead—U. S. Engr. Office, Customhouse, New Orleans receiving bids Jan. 16, Southwest Pass., Mississippi River. (See adv. in Dec. 21 issue.)

Tenn., Memphis—Lumber—Mississippi River Comn., U. S. Engr. Office, Custom House, Memphis, receiving bids Jan. 2, 771,000-ft. b. m. yellow pine.

Ill., Rock Island—Building and Railroad—Commanding Officer, Rock Island Arsenal, receiving bids Jan. 10 concrete hollow tile storehouse, 350-ft. standard railroad.

Ill., Rock Island—Storehouses—Commanding Officer, Rock Island Arsenal, receiving bids Jan. 3, 18 hollow-tile.

Colo., Denver—Gates—U. S. Rec. Ser. Denver, receiving bids Jan. 10, butterfly and cylinder, for Flathead Project, Mont.

Colo., Denver—Caterpillar Traction—U. S. Rec. Ser., Denver, receiving bids Jan. 2 traction and sub-base for attachment of drag-line excavation for Truckee-Carson Project, Nev.

Calif., Ft. Mason—Miscellaneous Supplies—Depot Quartermaster, Ft. Mason, San Francisco, receiving bids Jan. 10, Schedule No. 156.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Jan. 11, Circular No. 1109.

Bids In and Contracts Awarded

N. Y., New York—Paving—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract wood block paving, Navy Yard to FRANKLIN CONTRACTING CO., 52 Vanderbilt Ave., New York, $2.38 per sq.yd. Noted Nov. 30.

Pa., Phila.—Steel Barges— U. S. Engr. Office, Phila., received low bids Dec. 21, 4 barges, from American Bridge Co., Frick Bldg., Pittsburgh, $11,000; Walk & Murdoch Co.., Charleston, S. C., $17,164.

S. C., Charleston—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract radio buildings, tower and masts to CHARLESTON ENGINEERING AND CONTRACTING CO., 58 Broad St., Charleston, $7,595; PITTSBURGH-DES MOINES STEEL CO., Curry Bldg., Pittsburgh, Pa., $8,400. Noted Dec. 14.

Ky., Ashland—U. S. Engr. Office, Cincinnati, Ohio, rejected bids 2 lock tenders dwellings at Dam No. 29, Ohio River, near Ashland. Noted Nov. 16.

Mo., St. Louis—Levee Work—Mississippi River Comn., 1311 International Life Bldg. rejected bids 40,000-cu.yd. earth work in East Side Levee and Sanitary Dist., Ill. Noted Oct. 12.

Tex., El Paso—Canal Excavation—U. S. Rec. Ser., El Paso, received low bids 185,000 cu.yd. excavation, 29,000 cu.yd. levee from Lee Moor Contracting Co., 302 Republic Bldg., $39,921; D. O. Johnson, Phoenix, Ariz., $62,617; J. C. Plemmons, Arrey, N. M.

Wash., D. C.—Grading-Dist. Comrs. received low bids Dec. 14, 201,000-cu.yd. on certain streets from G. B. Mullen Co., E. G. Gummell, 36 Pennsylvania Ave., N. W., W. F. Brenizer Co., Q and 1st St., N. W. Noted Dec. 7.

Wash., D. C.—Highway Bridges—U. S. Rec. Ser., Washington, received low bids Dec. 20, steel, Sherburn Lakes Dam, Mont., from East St. Louis Bridge Co., East St. Louis, Ill., Lakeside Bridge and Steel Co., North Milwaukee, Wis., Des Moines Bridge and Iron Co., Des Moines, Ia.

Calif., Vallejo—Cranes—Bureau of Yards and Docks, Navy Dept., Washington, D. C. received low bids Dec. 16, 2 fitting-out cranes at Navy Yard, Mare Island, Calif., (a) delivered and erected on foundations furnished by Government, (b) f.o.b. works, from V. R. Browning & Co., 17,701 Lakeshore Blvd., Cleveland, (a) $22,000 each; McMyler Interstate Co., Bedford, Ohio, (a) $49,993, (b) $59,793; Heyle & Patterson, 50 Water St., Pittsburgh, Pa., (a) $55,176, (b) $39,185. Noted Dec. 14.

Hawaii, Pearl Harbor—Crane—Bureau of Yards and Docks, Navy Dept., Washington, D. C. let contract 50-ton locomotive jib to V. T. BROWNING & CO., 17701 Lake Shore Blvd., Cleveland, Ohio, $94,852. Noted Dec. 7.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Miss., Carthage—Drainage—Standing Pine Drainage Dist. No. 1, Leake County, receiving bids Jan. 8, canal, 4¾ mi. long. N. F. Wallace, Carthage, Clk. Chancery Court.

La., St. Bernard—Drainage—Versailles Drainage Dist., organized to drain between 1,000 and 2,000 acres from Bayou Bienvenue to city limits, St. Bernard County. J. W. Gladry and R. H. Gregory, Comrs.

Tenn., Alamo—Drainage—Crockett, Gibson and Dyer Counties plan Middle Forked Deer Drainage Dist. J. A. Robertson, Alamo, Chn. County Court, Crockett County. Ferre & McClesky, Arch.

Ind., Huntington—Ditch—Huntington County receiving bids Jan. 5, Hicks Ditch. G. Hock, Huntington, Drainage Comr.

Ind., Logansport—(Official)—Ditch—Drainage Comrs., Cass County, Court House, receiving bids Dec. 30, Jackson Township. H. E. Martin, Logansport, Comr.

Ia., Estherville—Ditch—Emmet County receiving bids Jan. 4, Ditch No. 112. R. J. Ridley, Estherville, Audr.

Ia., Ft. Dodge—Drainage—Webster and Wright Counties receiving bids Jan. 11, cleaning and deepening Drain No. 13, Newark Township; and Drain No. 11, Troy and Eagle Grove Townships. About $7,280. J. L. Hanrahan, Audr. Webster County, and F. E. Osier, Audr. Wright County.

Ia., Glenwood—Ditch—Mills County plans Nishnabotna Ditch No. 3. About $6,838. P. E. Humphrey, Glenwood, Audr.

Ia., Primghar—Ditch—O'Brien County soon receives bids in Drainage Dist. No. 4. M. Kerrigan, Primghar, County Engr.

Ia., Sac City—Drainage—Sac County plans, Coon Valley Township. W. D. Maxwell, Sac City, County Engr.

Minn., Cambridge—Ditch—Isanti County receiving bids Jan. 5, Ditch No. 12, about $13,076. G. S. Smith, Cambridge, County Audr.

Minn., Henderson—Ditch—Sibley and McLeod Counties, Henderson, receiving bids Jan. 20, Judicial Ditch No. 5. About $7,068. F. Hoppenstedt, Henderson, Audr. Noted Nov. 16.

Minn., Minneapolis—Ditch—Bd. Superv., Hennepin County, authorized E. E. Terrell, County Surv., to make survey and estimate cost public ditch in City Minneapolis and St. Louis Village. A. P. Erickson, Court House, Audr.

Minn., Redwood Falls—Ditch—Redwood County plans $43,000 bond issue, Judicial Ditch No. 15. W. H. Holz, Redwood Falls, County Audr. Noted Apr. 6.

Minn., Warren—Ditch—Beltrami, Pennington and Marshall Counties plan Judicial Ditch No. 39, 150 mi. long, ⅔ floater work and balance dry land work. About $300,000. G. Walker, Thief River Falls, Engr.

Kan., Kansas City—Drainage—Kaw Valley Drainage Bd., 719 Osage Ave., receiving bids Jan. 3, 15,700 sq.yd. riprap revetment on Kansas River.

Neb., Wakefield—Ditch—Dixon County, Wakefield Drainage Dist., plans. About $75,000. Address A. N. Porter, Ponca, County Clk.

Mo., Monticello—Drainage—Bd. Supervs., Lewis County, North Fabius River Drainage Dist., at office T. L. Johnson, Monticello, receiving bids Jan. 10, channel, about 540,000 cu.yd. excavation. Elliott & Harman Engineering Co., 144 Fredonia Ave., Peoria, Ill., Engr.

Tex., Brackettville—Irrigation—A. F. Biedler, Hinsdale, plans dam across Hondo Creek, for irrigation purposes.

Tex., San Benito—Irrigation—Cameron County, Dist. No. 2, voted $600,000 bonds, $340,000 to be used to purchase irrigation system San Benito Land and Water Co. and remainder to improve pumping plant and extend canal system. Address County Clk., San Benito. Noted Nov. 30.

Okla., El Reno—Drainage—J. W. Pryer, Pres. Citizens Drainage Com., interested in project to form drainage district of counties in North Canadian River Valley. L. B. Clift, El Reno, appointed chairman of committee to confer with property owners in Canadian and Blaine Counties to form association of counties and district to build canal connecting North and South Canadian Rivers.

Okla., Lawton—Irrigation—Lawton Irrigation Dist., Comanche County, making preliminary plans irrigation district near Ft. Still Reservation. About $160,000. C. S. Pease, Lawton, Engr.

Colo., Pueblo—Irrigation Improvements—Welton Ditch Co. plans.

Utah, Garfield—Ditch, Etc.—J. F. Tidwell applied to Comrs. Salt Lake County, Salt Lake City, permission to build dam and ditch system along Storr Creek.

Bids In and Contracts Awarded

Tenn., Dyersburg—Drainage—Bogota Drainage Dist. of Dyer and Obion Counties let contract about 405,000 cu.yd. excavation to J. P. CARR, Ft. Wayne, Ind., $25,260. Noted Dec. 21.

Canals, Ditches and Irrigation (Continued)

Ind., Ft. Wayne—Ditch—Allen County let contract Whitney Ditch, Madison and Jefferson Townships, to J. TROTTMAN, Monroeville, about $4,161.

Ind., Rochester—Ditch—Fulton County let contract L. N. Bair Ditch to L. G. HOLTZ, about $6,725.

Ill., Arcola—Ditches—City let contract improving ditches in Drainage Dist. No. 10 to NATIONAL DRAIN TILE CO., Terre Haute, Ind. About $15,400.

Ia., Eldora—Ditch—Hardin County let contract furnishing tile ditch, Drainage Dist. No. 95, to ELDORA PIPE AND TILE CO., about $4,266. No bids received for labor.

Ia., Sibley—Drainage—Osceola and Dickinson Counties, Dist. No. 3, let contract joint drainage district to J. H. SALISBURY, Dows, about $180,575. Noted Nov. 30.

Minn., Bermidji—Ditches—Beltrami County plans Judicial Ditch No. 40, Spruce Grove Township No. 156, Range 36. About $42,684. Address County Clk., Bermidji.

Minn., Detroit—Ditch—Becker County received low bids Ditch No. 15 from Khoeler Contracting Co., Frazee, .10c. cu.yd.; Gleason & Co., Aitkin, .105c.; Northwestern Drainage Co., Grand Rapids, .106c.

Minn., Fairmont—Ditch—Martin County let contract, Judicial Ditch No. 41, to REDDING & SINAAGE, Windom, about $8,800.

Minn., Duluth—Ditch—St. Louis County let contract County Ditch No. 6 to NORTHWESTERN DRAINAGE CO., Grand Rapids, Wis. About $200,000. Noted Nov. 23.

Minn., Warren—Ditch—Marshall County let contract Ditch No. 28 to NORTHWESTERN DRAINAGE CO., Grand Rapids, 132c. cu.yd.

MISCELLANEOUS

Proposed Work

Mass., Boston—Fountain—City plans near Summer St. About $6,000. Same is gift to city by will of Sarah E. Conery.

Mass., Lynn—Improving Creek—City plans $6,000 bond issue at Strawberry Brook. W. L. Vennard, City Engr. Noted July 13.

Mass., Montague—Park—Turners Falls Power and Electric Co. and Connecticut Valley Street Railway Co., plan. About $150,000. W. J. Howes, 243 High St., Holyoke, Arch.

Ct., Bridgeport—Amusement Resort—C. R. Wilson, Mayor, recommended that Council purchase Steeplechase Island for amusement resort, also build comfort station on Catherine St. A. H. Terry, City Engr.

Ct., Bridgeport—Park—Bd. Aldermen adopted resolution of Bd. Park Comrs. to purchase Beach's Woods on Madison Ave. park. Tract comprises about 35 acres. G. H. Eames, Pres. Park Bd.

N. Y., Great Neck—Dock—H. De Lesser plans large dock, Grenwold Estate, Manhasset Bay.

N. Y., Hornell—Coal Pockets and Interlocking Switch System—Erie R.R. made plans, 1,000-ton capacity. About $45,000. W. J. English, Hornell, Div. Supt. R. S. Parsons, 50 Church St., New York, Ch. Engr. Noted Oct. 26.

N. Y., New York—(Brooklyn)—Bath House—F. Moglola, 931 Ocean Ave., made plans 3-story, 40x122-ft. About $15,000. L. Allmendinger, 20 Palmetto St., Arch.

N. Y., New York—(Brooklyn)—Subway—Pub. Ser. Com., 120 Broadway, Manhattan, receiving bids Jan. 10, Route 31, part of Eastern Parkway Rapid Transit R.R., Livonia Ave. extension, 2-track elevated line. Contract for this work recently rescinded. Noted June 22.

N. Y., New York—(Manhattan)—Coal Railway—Dept. Pub. Charities, Municipal Bldg. rejected bids automatic coal railway and trestle at power house, Metropolitan Hospital, Blackwells Island. New bids in spring. Noted Oct. 12.

N. Y., New York—(Manhattan)—Pier—Dept. Docks and Ferries making plans extension Pier 29 to be leased to Pennsylvania R.R., 7th Ave. and 32nd St.

N. Y., New York—(Richmond)—Mausoleum—Community Mausoleum Co., c/o F. G. Stanley, Times Bldg., Manhattan, receiving bids superstructure, 1-story, 30x90-ft., about Jan. 1. Clinton & Russell, 32 Broadway, Manhattan, Arch.

N. Y., Oswego—Subway—City making plans, under tracks New York Central and Ontario & Western Ry. tracks, East 9th and Schuyler St. J. F. Flanigan, City Engr. Noted Nov. 2.

N. Y., Rochester—Fire house—City plans on St. Paul St. between Andrews and Franklin St. F. T. Elwood, City Engr.

N. J., Somerville—Elimination Grade Crossings—Central R.R. of New Jersey plans elevation tracks through Somerville; 3 grade crossings and elimination important grade crossings on line from Finderne to Raritan. Plans submitted to Bd. Pub. Utility Comrs. for approval. About $1,800,000. A. E. Owen, 143 Liberty St., New York, Ch. Engr.

N. J., Trenton Junction—Elimination Grade Crossing—Bd. Pub. Utility Comrs. approved plans tunnel to eliminate grade crossing at Trenton Junction for Philadelphia & Reading Ry. S. T. Wagner, Reading Terminal, Phila., Ch. Engr. Ry. Noted Dec. 7.

Penn., Philadelphia—Piers—Pennsylvania Sugar Refinery Co., 1039 North Delaware St., applied to Dept. Wharves Docks and Ferries permission to improve and extend Piers Nos. 46 and 47 North Wharves.

Pa., Phila.—Stadium—Dir. Athletic Asociation University of Pennsylvania, 33rd and Locust St., plans. E. T. Smith, L.L.D., Pres.

Penn., Pitcairn—Coaling Station—Pennsylvania R.R. plans being made, $80,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pa., Tuckerton—(West Leesport post office)—Elimination Grade Crossings—Philadelphia & Reading Ry. plans. S. T. Wagner, Reading Terminal, Phila., Ch. Engr.

Md., Baltimore—Elimination Grade Crossings—City, Baltimore & Ohio Railroad Co. and Western Maryland Ry plan to connect Hanover St. over tracks Baltimore & Ohio R.R. at Winder St. and over tracks Western Maryland Ry. at Donaldson St. with 2 viaducts with fill between Baltimore & Ohio R.R.; also plans to eliminate all other crossings on Hanover St. R. N. Begien, Baltimore and Charles St., Ch. Engr., former railawy, and H. R. Pratt, Continental Bldg., Ch. Engr. latter

Md., Bengies—Race Track, Etc.—Singer-Pentz Co., 600 Equitable Bldg., Baltimore, plans. About $150,000.

Va., Norfolk—Road Roller, Etc.—Comrs. Rds. and Bridges Norfolk County plan to purchase road roller and scarifier. Address County Clk., Norfolk.

Va., Sewalls Point—Coal Dumping Plant—Virginian Ry. plans to enlarge. H. Fernstrom, Norfolk, Ch. Engr.

Ga., Atlanta—Swimming Pool—Park Comn. plans to spend $10,000 swimming pool in Grant Park. G. P. Freeman, Chn. Noted Feb. 10.

La., New Orleans—Fountain—Mrs. E. Joseph and Mrs. Cora G. Moses presented city with $10,000 to install memorial fountain in Audubon Park. Olmsted Bros., Brookline, Mass., to assist with design.

Ky., Lexington—Swimming Pool—Parent-Teachers' Assoc plans community swimming pool. R. Wilkinson, Pres.

Ky., Louisville—Bathing Beach—Bd. Park Comrs. plan, Shawnee Park. B. Washer, Chn.

Ohio, Cleveland—Amusement Park—H. P. Angel, Leader-News Bldg., and associates, with $2,000,000 capital, plan to acquire recently organized Aëroplane Syndicate Amusement Co., and plan park.

Ohio, Cleveland—Market—St. Clair Market Co., Union Bldg., granted permit, 10602 St. Clair Ave. About $80,000. H. T. Jeffery, 1836 Euclid Ave., Arch. and Engr.

Ohio, Toledo—Subway—City, New York Central R.R. Lines West of Buffalo, and Michigan Central R.R. plan on Central Ave. About $288,000, $98,000 to be appropriated by city. H. McKechnie, City Engr. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Ch. Engr., former railroad and G. H. Webb, Passenger Terminal Station, Detroit, Ch. Engr., latter.

Ind., Angola—Monument—Steuben County receiving bids Jan. 18, Soldiers' Monument. F. C. Dewey, Angola, Audr.

Ind., Columbus—Levee—W. A. Abbott and G. A. Blessing, Comrs., appointed by Judge Circuit Court, recommend that levee in White River be removed as an aid to flood prevention. G. Rader, City Engr.

Ind., Indianapolis—Flood Protection—City plans to issue $116,640 bonds for flood protection work. B. J. T. Jeup, City Engr. Noted June 1.

Ind., Indianapolis—Street Sweepers—City plans to purchase. B. J. T. Jeup, City Engr.

Ill., Blue Island—(Official)—Swimming Pool—Blue Island Park Bd. receiving bids Jan 1 rein.-con., and frame locker house. About $10,000. Noted Oct. 5. (See adv. in Dec. 21 issue.)

Minn., Bemidji—Hockey Rink, Etc.—R. Lycan making plans 130x160-ft. hockey rink and 40x 12-ft.. warming rink.

Minn., Duluth—Park Improvements—J. A. O. Preus, State Audr., will recommend that Legislature appropriate $30,000 improving Jay Cooke Park. L. Ayers, City Engr.

Minn., Eveleth—Park Improvements—Council plans to spend about $15,000 improving Athletic Park.

Kan., Winifield—Park Improvements—City defeated $15,000 bonds to improve parks. Noted Nov. 23.

S. D., Deadwood—Lawrence County receiving bids Jan. 8 concrete retaining walls, culverts, abutments, bridges, etc., as may be required during 1917. F. Harris, Deadwood, County Audr.

Mo., St. Louis—Elimination Grade Crossings—City plans election in May or June to vote on $2,000,000 bonds. E. R. Kinsey, Pres. Bd. Pub. Ser.

Tex., Austin—Docks, Terminals, Etc.—City plans $230,000 bond issue on water front. M. C. Welborn, City Engr.

Tex., Beaumont—Levee, Etc.—South Texas State Fair Association plans to improve Island Park for fair grounds and to build levee around Island Park, bridge across Brake's Bayou and auditorium. About $150,000. P. B. Doty, Dir.

Tex., Beaumont—Natatorium—Park Bd. plans. About $10,000. C. L. Scherer, City Engr.

Tex., Dallas—Natatorium—G. S. Leachman making plans 2-story, 1816 Harwood St. About $50,000. Orlopp & Orlopp, Arch. Noted Sept. 7.

Tex., East Dallas—(Dallas post office)—Elimination Grade Crossing—Texas & Pacific Ry. made plans rein.-con. viaduct on Pacific Ave. at crossing of Houston & Texas Central Ry., East Dallas, to Broadway near Trinity River, 4 tracks. About $1,000,000. C. H. Chamberlin, Dallas, Ch. Engr. Noted Dec. 14.

Tex., Waco—Coliseum—Texas Cotton Palace plans. About $150,000.

Idaho, Lava Hot Springs—Bath House—J. K. White, Boise, State Sanitary Inspector, to ask next legislature to appropriate $25,000.

Ariz., Phoenix—(Official)—Paving Plants, etc.—City desires quotations on municipal paving plant, graders, fresnos, slips dump wagons, (grading and asphalt) railroad plows, 12-ton steam roller, 8-ton tandem asphalt roller, gyratory rock crushers and elevators. J. B. Girand, City Engr.

Wash., Bellingham—Dock—City plans, Whatcom Creek. About $25,000. T. F. Doan, Engr.

Wash., Tacoma—Ferry and Docks—Pierce County appropriated $30,000 ferry and docks between Tacoma and Vashon Island points, also new wharf at Old Town inside breakwater for terminal. Work to be started next year. Address County Clk., Tacoma.

Calif., Pomona—Flood Protection—County plans to issue $400,000 bonds for controlling flood waters of San Antonio, Williams and San Dimas Canyons by turning waters into reservoir and letting it seep off. Address County Clk., Pomona.

Calif., Pomona—Mausoleum—Cemetery Association plans. About $65,000.

Calif., Sacramento—Pavilion—State Bd. Control plans, to replace one for State Fair recently destroyed by fire. About $300,000. J. S. Chambers, State Controller.

Calif., San Francisco—Fire House—City and San Francisco County making plans, 3-story, 25th and Vermont St. About $35,000. Ward & Blohme, Alaska Commercial Bldg., Arch.

Calif., San Francisco—Pier—State Bd. Harbor Comrs. approved plans Pier No. 3, foot Washington St., 138x700-ft., concrete and timber.

Ont., Sarnia—Market—Council plans new market buildings. J. D. Stewart, City Clk.

Ont., Toronto—Fill—Council to appropriate $15,000 of $40,000 necessary to complete Boor St. fill.

Ont., Windsor—Crusher—Council authorized purchase motor feed crusher. M. E. Brian, City Engr.

B. C., Vancouver—Tunnel—Council negotiating with officials Canadian Pacific Ry. to build tunnel under central portion Vancouver. W. McQueen, City Clk. W. E. Woodhouse, Montreal, Ch. Engr. Ry.

Bids In and Contracts Awarded

Pa., Phila.—(Official)—Pier—G. S. Webster, Bourse Bldg., Dir., Dept. Wharves, Docks and Ferries, let contract pier foot of Cherry St. to SNARE & TRIEST CO. 233 Broadway, New York, $439,726. Noted Dec. 7.

Pa., Phila.—Playgrounds—City let contract improving playgrounds, Cedar and Cambria St. to J. CONNOR, 2848 Frankford Ave., $70,000. Noted Nov. 30.

Fla., Miami—Swimming Pool, etc.—C. G. Fisher, Box 64, Route B, let contract C. J. WACKER. Noted Dec. 21.

Ohio, Cleveland—Amusement Pavilion—Luna Park Amusement Co. let contract to ANDREWS BROS. CONSTRUCTION CO., 130 Engineers Bldg., $40,000. Noted Dec. 14.

Mich., Flint—(Official)—Subway—City let contract 185½ tons structural steel for subway under tracks Pere Marquette R.R. to McCLINTIC MARSHALL CO., 58 Lafayette St., Detroit, $13,594. Noted Nov. 23.

Neb., Omaha—Channel—Douglas County let contract in Mosquito Creek to STERNBERG BROS., St. Louis, Mo., $31,095.

Mo., Kansas City—Roller Coaster—Electric Park Amusement Co., 47th and Lydia St. let contract to McFADDEN CONSTRUCTION CO., Grand Rapids, Mich., $70,000.

Ore., Portland—(Official)—Elimination Grade Crossing—City received low bids Dec. 6 for eliminating grade crossings Oregon-Washington R.R. and Navigation Co. from Pearson Construction Co., New York Bldg., Seattle, $561,283; Porter Bros., Railway Exchange Bldg., $617,428; Warren Construction Co., Journal Bldg., $649,590. Noted Sept. 28.

Calif., Artesia—Dyke—City let contract earth dyke along East San Gabriel River to A. STUTZER, Venice, 19c. cu.yd.

Calif., Bakersfield—Road Roller—Kern County rejected bids. Address County Clk., Bakersfield

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Vt., Proctor—Office—Vermont Marble Co. soon receives bids. R. C. Sturgis, 120 Boylston St., Boston, Mass., Arch.

Buildings (Continued)

Mass., Arlington—Nurses' Home—Symmes Arlington Hospital made plans 3-story, 33x65-ft. Kendall, Taylor & Co., 93 Federal St., Arch.

Mass., Cambridge—Bank—Manufacturers National Bank made plans 3-story 89x90-ft. W. L. Mowll, 185 Devonshire St., Boston, Arch. Noted Nov. 2.

Mass., Lenox—Sanitarium—F. H. Giblett, 20 Elizabeth St., Pittsfield, interested in building sanitarium. About $200,000.

Mass., Wrentham—Dormitory—State revised plans. About $56,000. Kendall, Taylor & Co., 93 Federal St., Arch.

R. I., Providence—Theater—Keith Co. plans 5-story, 81x157-ft., brick on Snow St. A. E. Westover, Keith Bldg., Phila., Pa., Arch.

Ct., Bridgeport—Fire and Police Building—Bd. Contract and Supply, City Hall, soon receives bids, at Fairfield Ave. and King St. L. Asheim, 211 State St. Arch.

Ct., Bridgeton—Church—United Congregational Church made plans. About $50,000. C. Gilbert, 11 East 24th St., New York, Arch.

Ct., Hartford—High School—City made plans, soon receive bids 109x156-ft. About $250,000. I. A. Allen, Jr., Arch. Noted June 22.

Ct., New Britain — Temple — New Britain Masonic Temple Corp. plans on South High St. About $50,000.

Ct., New Haven—Church—Church of the Redeemer made plans. Rev. R. M. Houghton, Pastor. Cady & Gregory, 40 West 32d St., New York, Arch.

Ct., New Haven—School—Bd. Education receiving bids Jan. 6 on Harrison Ave. Brown & Von Beren, 185 Church St., New Haven, Arch.

Ct., Waterbury—Clubhouse—Waterbury Club making plans. C. Gilbert, 11 East 24th St., Waterbury, Arch.

N. Y., Amsterdam—School—City making plans 2-story. About $85,000. W. Potter, 1 Union Sq., New York, Arch. Noted Oct. 5.

N. Y., Binghamton—Clubhouse—Binghamton Country Club plans.

N. Y., Buffalo—City Terminal Comn. approved plans passenger terminals at Buffalo for New York Central R.R. About $11,000,000. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr. Noted Nov. 9.

N. Y., Cold Springs—Hospital and Library—Village making preliminary plans 2- and 1-story. Crow, Lewis & Wickenhoefer, 200 5th Ave., New York, Arch.

N. Y., Lackawanna—Bank—Lackawanna Trust Co. and Lackawanna National Bank made plans 1-story, 40x110-ft. About $40,000. N. Dunning, Builders Exchange, Buffalo, Arch.

N. Y., Long Beach—(Official)—New York Telephone Co. making plans building.

N. Y., Matteawan — (Beacon postoffice) — Women's Building—Manhattan State Hospital plans addition. About $60 000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., Mineola—Hospital—Bd. Superv. Nassau County purchased 100 acres Bethpage Tract, plans tuberculosis hospital.

N. Y., Morristown—Lyceum—City plans. About $50,000.

N. Y., New York—(Brooklyn)—(Official)—High School—Bd. Education making plans addition Bushwick High School, Irving and Putnam Ave. C. B. Synder, 500 Park Ave., Brooklyn, Arch.

N. Y., New York—(Manhattan)—(Official)—Theater—Mrs. M. H. Lewis, 25 West 11th St., soon receives bids 3-story, 53x101 ft., on 4th and Christopher St. About $75,000. H. L. Meader, 4 West 33d St., Manhattan, Arch.

N. Y., Sherrill—High School—City to vote on bonds to build high school.

N. Y., Silver Creek—School—Bd. Education made preliminary plans. About $80,000. H. S. Horton, 428 Marine National Bank Bldg., Buffalo, Arch.

N. Y., Woodmere—School—Bd. Education plans. H. Bacon, 101 Park Ave., New York, Arch.

N. J., Lodi—School—City plans, on Constant Ave. About $75,000.

N. J., Montclair—Church—Central Presbyterian Congregation making plans 1½-story, 60x110-ft. About $75,000. Carrere & Hastings, 52 Vanderbilt Ave., New York, Arch.

N. J., Montclair—School—Bd. Education receiving bids Jan. 2, 2-story addition to Nishuane School. About $175,000. Starrett & Van Vleck, 8 West 4th St. New York, Arch. L. L. Jackson, 22 Valley Rd., Secy. Noted Dec. 21.

N. J., Montclair—School—Bd. Education receiving bids Jan. 2, 2-story addition to Watching School. L. L. Jackson, 22 Valley Rd., Secy. Noted Dec. 21.

N. J., Morristown—Hall—City plans rebuilding Lyceum. About $50,000. G. Willis, 235 South St., interested.

N. J., Sea Bright—Hotel—Peninsula House, Ind., care of J. Connolly, 27 William St., Manhattan, making plans 3-story addition. C. B. Myers, 1 Union Sq., Manhattan, Arch.

N. J., Vineland—Church—Sacred Heart Congregation made revised plans 1-story, 68x150-ft. About $40,000. H. G. Hammer, 115 Keswick Ave., Glenside, Pa., Arch.

Pa., Aspinwall—High School—Bd. Education soon receives bids 2-story, 75x160-ft. About $75,000. P. C. Dowler, Arrott Bldg., Arch. Noted Nov. 30.

Pa., Conshohocken — Rectory — St. Matthews Congregation making plans 2-story, 40x75-ft. stone.

Pa., Doylestown—(Official)—Science Building—National Farm School soon receives bids. About $75,000. Magaziner & Potter, 603 Chestnut St., Phila., Arch. Noted Dec. 14.

Pa., Farrell—School—School Bd. plans at Hamilton Ave. and Bond St. About $75,000.

Pa., Lewistown—Y. M. C. A. made plans 3-story, 90x140-ft. About $75,000. J. B. Hamme, York, Arch. Noted Sept. 28.

Pa., Newton—School—Town making plans 2-story, 76x82-ft., brick and stone addition. E. F. Bertolet, Arch.

Pa., Phila.—Bell Telephone Co. plans 3-story, 90x137-ft. addition to its Germantown Exchange building.

Pa., Phila.—Clubhouse—Musical Art Club making plans 4-story, brick and rein.-con., at 1809-17 Ranstead St. Price & McLanahan, Bellevue Court Bldg., Phila., Arch.

Pa., Red Lion—Church—United Evangelical Congregation making plans 2-story. About $60,000. J. B. Hamme, Weist Bldg., York, Arch. Rev. J. T. Pettit 1st Ave., Red Lion, Pastor.

Pa., Sharon—Hospital—City plans addition Buhl Hospital, East State St.

Pa., Williamsport — Clubhouse — Williamsport Lodge No. 173, B. P. O. Elks plans.

Pa., York—Bank—First National Bank made plans 1-story, 35x83-ft. About $100,000. Gennill & Billmeyer, Rosenmiller Bldg., Arch. Noted Nov. 30.

Va., Norfolk — Church — Knox Presbyterian Congregation plans 2-story addition.

Va., Portsmouth—High School—Bd. Education made plans, 3-story, 60x162-ft. About $40,000. C. M. Robinson Times-Dispatch Bldg., Richmond, Arch. Noted Sept. 7.

W. Va., Adamston—School—Harrison County voted $90,000 bonds to build school. Address County Clk., Clarksburg.

W. Va., Huntington—Auditorium and Gymnasium—Bd. Education receiving bids Jan. 3, for Junior High School, Jefferson Ave. and 10th St. V. T. Ritter, Huntington, Arch.

S. C., Crescent—School—Crescent and Bellevue Consolidated School Dist. plans.

S. C., Spartanburg—Office, Theater and Store—O. L. Johnson, J. T. Willard and P. B. Langford plans on Main St.

Ga., Rome — School — Darlington Preparatory School plans, at Mabley Park Spring. About $50,000.

Ga., Valdosta—Clubhouse—Valdosta Country Club plans.

Fla., St. Petersburg—High School—City voted in January on $175,000 bonds to build high school. G. N. Sleight, Supt.

Ala., Decatur—Hotel—Lyons Hotel plans addition. About $50,000. T. L. Hobart, Mgr.

La., New Orleans—Y. W. C. A. plans 3-story building on Gravier St. About $75,000.

La., New Orleans—New York Cotton Exchange plans building at Gravier and Carondelet St. About $350,000.

Tenn., Jefferson City—Administration Building—Carson-Newman College rebuild, recently destroyed by fire. Loss $60,000.

Tenn., Murfreesboro—High School—School Bd. making plans. About $50,000. G. B. Giltner, Mayor. Noted Oct. 19.

Ky., Danville—Hospital—City plans. About $75,000.

Ky., Danville—School—City made plans. About $50,000. Noted Nov. 23.

Ky., New Albany—Masonic Temple—F. & A. M. making plans at East 11th and Main St. C. Martindale, Fletcher Savings and Trust Bldg., Indianapolis, Ind., Arch.

Ohio, Akron—Bank and Hotel—Commercial Savings Bank Co. receiving bids Jan. 10 12-story, 50x200-ft. About $300,000. T. B. Boyd, 286 5th Ave., New York, Arch.

Ohio, Arlington—Grade and High School Bd. Education voted bonds to build 2-story grade and high school. About $60,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, Canton—Bank and Office—Dime Savings Bank plans. About $150,000 or $200,000.

Ohio, Columbus—Exposition Halls—Columbus Exposition Building Co. made plans. About $300,000. L. F. Kiesewetter. Treas. Noted Sept. 7.

Ohio, Columbus—Hospital—Hospital Bd. plans at Fair and Miller Ave.

Ohio, Coshocton—Hospital—City receiving bids Jan. 25 addition.

Ohio, Dayton—Theater—M. Gates, Indianapolis, Ind., and associates, incorporated with $250,000 capital stock, plans on Main St.

Ohio, Dayton—(Official)—Church—Grace Methodist Episcopal Congregation receiving bids in spring. About $150,000. Schenck & Williams, 591 Arcade Bldg., Arch. Noted Dec. 14.

Ohio, Deschler—Grade and High School Bd. Education soon votes on bonds to build 2-story grade and high school. About $100,000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, Hamilton — Auditorium — Ft. Hamilton Lodge, No. 1437, L. O. O. M., made preliminary plans.

Ohio, Navarre—School—City plans.

Ohio, New Vienna—Grade and High School—Bd. Education soon votes on bonds to build grade and high school. About $70 000. F. L. Packard, 1212 Hayden Bldg., Columbus, Arch.

Ohio, St. Paris—School—City made plans. About $70,000. Rusk & Sheets, 145 High St., Columbus, Arch.

Ind., Evansville—Church—St. Johns Evangelical Church receiving bids in January, 3d and Ingle St. About $115,000. Noted Aug. 17.

Ind., Indianapolis—Hotel—C. E. Bates, Arch., 915 Hume Mauser Bldg., making plans 10-story.

Ind., Mitchell—Union Station—Baltimore & Ohio Southwestern R.R. made plans. F. T. Stewart, Baltimore, Ch. Engr.

Mich., Ann Arbor—Schools—Bd. Education making plans Mack and Bach Schools. About $60,000. R. W. Koch, 306 South State St., Arch.

Mich., Detroit—Michigan State Telephone Co. plans building at Grand River Ave. and Chope Pl.

Mich., Detroit—Hotel—C. E. Shippey, Arch., making plans.

Mich., Detroit—Club and Society Building—Congregation Ahavath Achim plans on Dehnar Ave. near Westminister Ave. O. L. Silverstein Pres.

Mich., Flint—Hotel—German Lutheran Church making plans. About $650,000. F. A. Aldrich, Chn. Com.

Mich., Monroe—School—School Bd. plans. About $75,000.

Mich., Muskegon—Y. M. C. A. plans building. About $100,000.

Mich., Sparta—Library—Osgood & Osgood, Widdicomb Bldg., Grand Rapids, making plans Carnegie Library.

Ill., Chicago—Home—Milk Wagon Drivers' Union plans. About $300,000.

Ill., Chicago—Infirmary—City plans at Pythisis Sanitarium, Crawford and Bryn Mawr Ave. About $500,000. J. Hunt, 26 North Michigan St., Arch.

Ill., Peoria—(Official)—Hospital—St. Francis Hospital receiving bids Feb. 1. About $150,000. A. F. Moratz, Bloomington, Arch. Noted Dec. 14.

Ill., Urbana—Hotel—J. W. Royer, Arch., made plans, 6-story.

Wis., Clintonville—Hotel—A. J. Culper M. Madel and J. C. Bossard plans. About $60,000.

Wis., Kenosha—School—Bd. Education plans on North Side. About $75,000.

Wis., Madison—Bank and Office—Bank of Wisconsin making plans 6-story, at West Main St. and Monona Ave. About $250,000. J. M. Boyd, 1 East Main St., Pres.

Wis., Madison—Y. M. C. A. plans building.

Wis., Milwaukee — Sanitarium — Madison-Anti-Tuberculosis Association made plans, east side Lake Monona.

Wis., Milwaukee—Fraternity House—Phi Kappa Psi Alumni of University of Wisconsin plans. About $40,000.

Wis., Milwaukee—Clubhouse—Madison Club House Association making plans 3-story. $100,000.

Wis., Milwaukee—Y. M. C. A. plans building. About $150 000.

Wis., Shell Lake—High and Grade School—City making plans, bids in January. About $35,000 or $40,000. E. J. Hancock, 9 McGrath Bldg., Eau Claire, Arch.

Wis., Two Rivers—School—City soon votes on $75,000 bonds to build school. H. Krase, Village Clk.

Wis., Watertown—Jail—Common Council passed ordinance to enlarge jail.

Wis., Waukesha—Walworth County Bd. voted to issue $60,000 bonds to build tuberculosis sanitarium. R. M. Funk, Waukesha, County Clk. Noted May 25.

Ia., Cedar Rapids—Bank—Merchants National Bank, recently destroyed by fire, making plans 12-story. About $300,000.

Ia., Centerville—High School—City voted $150,000 bonds to build high school. Noted Nov. 30.

Ia., Des Moines—Consistory Cathedral—Scottish Rite Cathedral soon to let contract. About $325,000. Noted Dec. 14.

Ia., Des Moines—Temple—Herman Lodge No. 275, A. F. & A. M., c/o I. W. Harpster, 905 Main St., Grinnell, receiving bids about Jan. 1, 3-story. About $55,000. F. E. Wetherell, 202 Youngerman Bldg., Arch.

Ia., Des Moines—School—Bd. Education making plans 3-story, 34th and College St. About $50,000. Keither & Jones, 610 Youngerman Bldg., Arch. A. L. Comice, 1623 Centre St., Secy. Bd.

Ia., Grinnell—Sunday School—Congregational Church made plans 3-story. About $40,000. Beimer & Herlin, First National Bank Bldg., Marshalltown, Arch.

Ia., Rockwell City—Club Rockwell City Country Club plans.

Buildings (Continued)

Ia., Sioux City—Theater—Orpheum Circuit, care of M. B. Beck, making plans. About $100,000. G. Rapp, Arch.

Ia., Sioux City—Theater—T. S. Martin, 412 Nebraska St. receiving bids Jan. 15. About $100,000. Noted Dec. 14.

Minn., Annandale—School—Bd. Education receiving bids Mar. 1. 2-story, 75x144-ft. About $50,000. G. J. Hoffman & Co., Rochester, Arch. Noted Aug. 24.

Minn., Clara City—High and Grade School—City making plans 2-story, 62x109-ft. Alban & Prins, 347 Endicott Bldg., St. Paul, Arch.

Minn., Cloquet—High School—Bd. Education soon let contract, 3-story, 100x130-ft. About $70,000. Kelly & Williams, Duluth, Arch. Noted Dec. 7.

Minn., Delhi—High and Grade School—Bd. Education making plans 2-story, rein.-con., 60x80 ft. Bids in January. K. T. Snyder, 1133 Plymouth Bldg., Arch.

Minn., Duluth—Zenith Telephone Co. made plans 3-story, rein.-con. building on 1st St. About $60,000. A. J. McCulloch, Gen. Mgr. Noted Oct. 19.

Minn., Eden Prairie—School—Industrial Dist. No. 4, Hennepin County plans. C. E. Hubert, Eden Prairie, Chn. School Bd.

Minn., Fairmont—Office—Water and Light Comn. plans 1-story, 30x52-ft. About $50,000. H. R. Tuttle, Clk.

Minn., Hastings—Service Building—State Bd. Control rejected bids, State Asylum. New bids in spring.

Minn., Kellogg—School—Bd. Education receiving bids Mar. 1, 2-story, 85x110-ft. About $40,000. G. J. Hoffman & Co., Rochester, Arch. Noted Oct. 26.

Minn., Lakefield—High School—Bd. Education making plans 2-story, rein.-con. About $75,000. K. T. Snyder, 1133 Plymouth Bldg., Minneapolis, Arch.

Minn., Mankato—Hotel—Commercial Club plans 7-story. About $225,000.

Minn., Mankato—G. J. Hoffman & Co., Rochester, receiving bids about Mar. 1 tuberculosis sanitarium. About $45,000. Noted Oct. 26.

Minn., Minneapolis—Convention Hall—Minneapolis Chapter of American Institute of Architects plans.

Minn., Minneapolis—Library—Coe College plans. About $50,000.

Minn., Minneapolis—University of Minnesota plans Y. M. C. A. building. About $160,000. G. E. Vincent LL.D., Pres.

Minn., Rochester—Consolidated School—Bd. Education receiving bids Mar. 1, 2-story, brick. About $50,000. J. Hoffman & Co., Rochester, Arch.

Minn., St. Paul—St. Paul House Furnishing Co. plans 50x130-ft. building. About $75,000. J. Levy, Pres.

Kan., Marion—School—City defeated $50,000 bonds to build 3-story school. T. W. Williamson & Co., Topeka, Arch. Noted Oct. 19.

Kan., Neodesha—High School—City making plans 2-story, fireproof. About $85,000. Smith, Rea & Lovitt, Finance Bldg., Kansas City, Mo., Arch. Noted Dec. 14.

Kan., Pratt—Hotel and Theater—R. Calbeck receiving bids in January 3-story. About $40,000. F. G. McCune, Winne Bldg., Wichita, Arch.

Kan., Russell—School—City making plans 2-story. About $40,000. W. T. Schmitt, 1634 West 10th St., Oklahoma, Okla., Arch. Noted Oct. 5.

Kan., Sedan—Court House—Chatauqua County receiving bids Jan. 1. 3-story, brick. About $50,000. G. P. Washington & Son, Ottawa, Arch. Noted Nov. 30.

Kan., Topeka—Auditorium—City to vote in January on $100,000 bonds to build auditorium. Noted June 8.

Kan., Wichita—Theater—J. H. Cooper plans. About $40,000.

Neb., Bayard—Hotel—H. A. Weil and associates, North Platte, purchased site, plans. About $50,000.

Neb., Columbus—Church—Polish Catholic Congregation making plans 1-story, brick and stone. About $50,000. C. Wurdeman, 313½ 13th St., Arch. Noted Dec. 14.

Neb., Fremont—Courthouse—Dodge County receiving bids Jan. 22, 4-story. About $140,000. J. O'Connor, Fremont, County Clk. Noted Dec. 7.

Neb., Hastings—School—Bd. Education made plans. About $125,000. Noted Oct. 26.

Neb., Lincoln—Political and Social Science Buildings—University of Nebraska making preliminary plans 3-story. About $350,000. Coolidge & Hoggdon, Corn Exchange Bank Bldg., Chicago, Arch.

Neb., Omaha—Home—Society American Widows plans. About $50,000 or $75,000.

S. D., Brooklings—High and Grade School—School Bd. making plans. Tyrie & Chapman, 320 Auditorium Bldg., Minneapolis, Minn., Arch.

S. D., Huron—Hotel—Commercial Club plans 5-story. About $100,000.

N. D., Fargo—High School—Commercial Club making plans. About $500,000. E. F. Ladd, Pres. Noted Dec. 14.

N. D., Kildeer—Hospital—Hospital Association plans. About $50,000. R. Wilcox, Dir.

Wyo., Casper—Lodge—Fraternal Order of Eagles making plans 2-story. About $40,000.

Mont., Billings—Bank—Bank of Montana making plans. A. H. Marble, Cheyenne, Pres.

Mont., Butte—Y. M. C. A. plans building. About $200,000.

Mont., Helena—Theater—Montana Opera House Co. making plans. About $100,000. T. A. Marlow, Arch.

Mont., Lewistown—Knights of Columbus plan building.

Mont., Livingston—Hotel—C. S. Hefferling making plans rebuilding Corwin Hot Springs Hotel, recently destroyed by fire.

Mont., Wilsall—Hotel—F. Landis plans 3-story.

Mo., Joplin—Clubhouse—Joplin Country Club plans between 15th and 20th St. About $50,000.

Mo., Moberly—Labor Temple—Booster Club plans. About $40,000.

Mo., St. Louis—Home—University Club plans 11-story, at Grand Ave. and Washington Blvd. About $500,000.

Ark., Fordyce—High School—School Bd. plans rebuilding, recently destroyed by fire. Loss, $50,000.

Ark., Helena—Station—Illinois Central and Missouri & North Arkansas R.R. making plans. About $40,000. A. S. Baldwin, Chicago, C. Engr. of former and W. C. Galbreath, St. Louis, Ch. Engr. of latter. Noted Oct. 19.

Ark., Texarkana—Church—St. Edward's Catholic Church soon lets contract. About $50,000. Rev. M. J. Enright, Pastor.

Tex., Amarillo—Hotel—Bd. City Development plans. About $200,000. Address P. H. Landergin.

Tex., Austin—Church—University of Texas plans Baptist Church. About $75,000.

Tex., Beaumont—Rotary Club, Chamber of Commerce and Retail Merchants Association plan. About $200,000. Address J. K. Grist, Chn. Hotel Com.

Tex., Belton—Church—Baptist Congregation making plans. About $50,000.

Tex., Brownwood—City Hall—City to vote in January on $110,000 bonds to build city hall.

Tex., Brownwood—High School—City votes Jan. 20 on $110,000 bonds to build high school. Noted Oct. 5.

Tex., El Paso—Court House—County voted $450,000 bonds to build court house. Address County Clk., El Paso. Noted Nov. 16.

Tex., Ft. Worth—Orphans' Home—Masonic Grand Lodge of Texas plans addition. About $100,000.

Tex., Ft. Worth—Dormitory—F. & A. M. plans. About $1,000,000.

Tex., Lubbock—Sanitarium—City made plans 3-story, brick. About $50,000. Noted Dec. 14.

Tex., Orange—City plans municipal building. Address Mayor.

Tex., Refugio—Courthouse—Refugio County voted $75,000 to build. Noted Nov. 2.

Tex., San Angelo Hotel—G. Burnett Co., Waco, made plans 7-story. About $150,000. Noted Nov. 16.

Tex., San Antonio—Asylum—Bd. Southwestern Insane Asylum plans improvements. About $170,000.

Tex., Waxahachie—High School—School Bd. making plans. About $80,000. C. H. Page & Bro., Austin, Arch. Noted Nov. 9.

Okla., Alva—School—High School—City making plans 2-story, brick. About $70,000. Layton & Smith, 701 Majestic Bldg., Oklahoma, Arch. Noted Sept. 21.

Okla., Drumright—Hotel—W. Kahn, Tulsa, plans.

Okla., Oklahoma—Hospital—Wesley Hospital plans addition. About $75,000.

Okla., Tulsa—Hospital—Ross Grosshart 202 Unity Bldg., plans 3-story, 48x120-ft., brick, stone and rein.-con. About $70,000. D. Elchenfield, 420 1st National Bank Bldg., Arch.

Colo., Breckenridge—School—School Bd. making plans addition.

Colo., Brighton—Church—Presbyterian Congregation plans.

Colo., Denver—Court and Jail—Denver County plans. About $125,000. Address County Clk., Denver.

Colo., Ft. Morgan—Clubhouse—Ft. Morgan lodge of Elks purchased site at Bijou and State St., plans.

Ariz., Flagstaff—A. W. Bikker plans business block to be leased by J. C. Penney Co., 354 West 4th Ave.

Wash., Prosser—Courthouse—County Comrs. soon to vote on $125,000 bonds to build courthouse.

Wash., Spokane—Lodge—B. P. O. E. of Spokane making plans. About $150,000. Noted Dec. 7.

Ore., Enterprise—School—City soon votes on $70,000 bonds to build school.

Ore., Klamath Falls—Assembly Hall and Gymnasium—School Bd. plans.

Ore., Pendleton—Church—Presbyterian Congregation plans. About $30,000 or $40,000.

Calif., Burlingame—Bank—Bank of South San Francisco making plans. About $40,000.

Calif., Los Angeles—Office—M. J. Connell soon lets contract 10-story, 80x154-ft., rein.-con., on Los Angeles St. F. L. Stiff, 1102 Van Nuys Bldg., Arch.

Calif., Los Angeles—Hotel—J. M. Cooper making plans 8-story, 75x103-ft., on 6th St. near Flowen St. W. M. Dodd and W. Richards, 635 Marsh-Strong Bldg., Arch.

Calif., Los Angeles—W. J. Dodd and W. Richards, Arch., Brockman Bldg., Los Angeles, made plans, 14-story, 40x146-ft. department store at 7th and Olive St. J. J. Haggerty, 303 5th Ave. New York, Mgr. Noted Nov. 30.

Calif., Los Angeles—Hospital—County Supervs receiving bids Jan. 8. About $250,000. F. Schulz, 359 Court House, Engr. Noted Sept. 7.

Calif., Pomona—Knights and Ladies of Security plan 4 buildings. About $250,000.

Calif., Pomona—Home Telephone Co. made plans 2-story, 50x60-ft. rein.-con. About $50,000. P. Higgs, First National Bank Bldg., Arch.

Calif., Sacramento—Institution—State plans for Feeble Minded Children and Adults. About $350,000.

Calif., San Francisco—Office—American National Bank plans 10-story, at California and Montgomery St.

Calif., Visalia—Visalia Elks Lodge made plans, 3-story. Bids received Jan. 1. About $60,000. Swartz & Swartz, Visalia, Arch. Noted Nov. 23.

N. B., St. Andrews—Hotel—Canadian Pacific Ry., Montreal, making plans addition Algonquin Hotel. About $65,000.

Que., Montreal—School—Roman Catholic School Comn., 87 St. Catherine St., recommends, in St. Marks Parish.

Ont., Ottawa—City Hall—Bd. Control considering plans enlarging. About $300,000.

Ont., Toronto—Hospital and Dispensary—Women's Cottage Hospital, 125 Rusholme Rd., Toronto, making plans. About $125,000. Gordon & Helliwell, Confederation Life Bldg., Arch.

Bids in and Contracts Awarded

N. H., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy let contract to HOLT FAIRCHILD CO., Old South Bldg., Boston, Mass., $150,000. Noted Nov. 2.

N. H., Peterboro—Town Hall—Town let contract 2-story, 65x100-ft. to J. H. Mendel Co., Manchester. About $65,000. Noted Nov. 30.

Mass., Bridgewater—Dormitory and Service Building—State Bd. Education received low bids State Normal School from J. W. Bishop Co., 683 Atlantic Ave., Boston, $195,425 and $180,366; G. B. Long, Worcester, $195,822 and $183,948. Noted Nov. 30.

Mass., Brooklyn—College of Pharmacy, 70 St. Botolph St., Boston, let contract 3-story, 70x200-ft. building at Brookline and Longwood Ave. to STONE & WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston.

Mass., Fall River—Mercantile Building—Steiger & Cox, Springfield, let contract 2-story to E. J. PINNEY, 264 Main St., Springfield.

Mass., Marblehead—Lodge—I. O. O. F. let contract addition to ROSCOE & STEELE, Marblehead.

Mass., Milton—School—Milton Academy let contract 3-story to MITCHELL & SUTHERLAND CO., 166 Devonshire St., Boston. Noted Nov. 23.

Mass., Waltham—Theater and Office—Moody St. Trust, care of Henderson & Ross, 30 State St., let contract to BOYD & BERRY, 11 Grampian Way, Dorchester Dist., Boston. About $75,000.

Mass., Worcester—Church—Covenant Congregation let contract 1-story, 56x80-ft. on Hamilton St. to L. O. IRISH, Auburn.

Ct., New Britain—Clubhouse—Shuttle Meadow Club let contract 2½-story, 60x120-ft. to DOHRENWEND BROS. CO.

Ct., Stratford—School—City let contract addition to Franklin St. School, Barnum Terrace to H. WALES LINES CO., Meriden.

Ct., Wethersfield—School—Town let contract 1-story to H. WALES LINES CO., 134 State St., Meriden. About $50,000. Noted Nov. 23.

N. Y., New York—(Bronx)—(Official)—School—Bd. Education received low bid additions P. S. No. 4, Fulton Ave. and East 173d St. from T. A. Clarke Co., 122 Livingston St., Brooklyn, $198,300.

N. Y., Pelham Manor—Church—Huguenot Memorial Forest Congregation let contract 1- and 2-story, to H. J. BROWN & SON, 257 Jefferson Ave., Brooklyn. About $80,000. Noted Apr. 20.

N. Y., Phoenix—Church—First Baptist Congregation let contract rebuilding to D. E. WADSWORTH, Phoenix.

N. Y., Poughkeepsie—Library—Trustees Vassas College let contract 1-story, 65x77-ft. brick and limestone addition to I. S. RUSSELL, 1 Madison Ave., New York. About $60,000.

Buildings (Continued)

N. J., Atlantic City—Hotel—G. W. Carmany let contract alterations and addition to Fredonia Hotel to W. PROCH, Sheen Bldg., Atlantic City. About $50,000. Noted Oct. 19.

N. J., Garfield—Clubhouse—Polish People's Home Club, 1 Monroe St., let contract 3-story, 57x150-ft. to J. TABUER, 9th St., Passaic. About $50,000.

N. J., Ocean City—Hotel and Pier—Headley & Shull, Arch., Guarantee Trust Bldg., let contract to A. CHAMBLEY, 243 South 10th St., Phila., Pa. About $800,000. Noted Oct. 12.

Pa., Carlisle—School—Dickinson School of Law let contract 2-story, to H. A. LACKEY, Carlisle, $41,000. Noted Oct. 26.

Pa., Coudersport—High School—School Dist. let contract 2-story, at Main and Water St. to P. W. FINN, Masonic Bldg., Altoona. About $57,000. Noted Nov. 16.

Pa., Phila.—Office—Midvale Steel Co. let contract 6-story, to F. W. MARK'S CONSTRUCTION CO., 2820 North 21st St., $200,000.

Pa., Reading—Clubhouse—Wyomising Club let contract 4-story, 48x132-ft. to BEARD CONSTRUCTION CO., Berks County Trust Bldg., Reading. About $75,000. Noted Nov. 23.

Md., Baltimore—Theater—McHenry Amusement Co. let contract 1-story to COGGSWELL, Koetlder Co., 405 Park Ave., Baltimore. About $40,000. Noted Aug. 31.

Va., Bon Air—Passenger Station—Southern Railway Co. let contract to W. BEGGS & CO., Spartanburg, S. C.

Va., Norfolk—School—City let contract 2½-story, to J. JOHNSON, 618 Law Bldg., Norfolk. About $100,000.

N. C., Winston—Salem—Theater and Store—Auditorium Co. let contract, rein.-con., to TRAVERS-WOOD CO., Richmond, Va., $100,000. Noted Nov. 30.

Fla., Jacksonville—(Official)—Office—Florida Realty Investment Corp. let contract 2-story, 94x106-ft., rein.-con. at Forsyth and Main St., to SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta, Ga. About $70,000.

Ohio, East Liverpool—School—Bd. Education let contract to C. H. VORHEES, Nelsonville, $86,980.

Ohio, Ironton—Home—Elks Lodge rejected bids.

Mich., Detroit—Store and Office—S. S. Kresge Co., Kresge Bldg., let contract 9-story, 65x100-ft. at Woodward Ave. and State St. to PORTER BROS., 507 Kresge St., Detroit. Noted May 11.

Mich., Detroit—Office—Peninsular Smelting Co. let contract, at 1321 West Jefferson Ave. to MALOW BROS., Dunn Rd. and Mt. Elliott, Detroit.

Ill., Evanston—Church—Mt. Zion Baptist Congregation let contract 3-story, 60x90-ft. to H. E. McDONALD, 840 Custer St., Evanston. About $60,000.

Ill., Mendota—School—City let contract to C. W. KARR, Clinton, $100,000.

Wis., White Fish Bay—School—City let contract to H. SCHMITT & SON, 621 Jackson St., Milwaukee, $60,000.

Ia., Clinton—Office—Curtis Bros. & Co. let contract to MILER & LADEHOFF, Wilson Bldg., Clinton. About $50,000.

Minn., Mountain Iron—Office—First State Bank let contract 2-story to VIRGINIA BUILDERS SUPPLY CO.

Kan., Wichita—Jail—County Comrs. let contract 6-story, to EBERHARDT CONSTRUCTION CO., Salina, $48,948. Noted Nov. 23.

Neb., Havelock—High School—Bd. Education let contract 2-story, fireproof and brick to H. F. JONES, Cedar Rapids, Ia. About $75,000. Noted Nov. 23.

Neb., Omaha—School—Bd. Education let contract Park School to J. D. MARDIS & CO., $120,400.

Neb., Omaha—City received low bid Yates School from J. Beck, $77,901. W. T. Bourke, Secy. Bd. Education. Noted Nov. 23.

Tex., College Station—Auditorium, Etc.—Agricultural and Mechanical College let contract auditorium and experiment station and administration building to LEDRETTER & GREAT HOUSE, Austin, $100,000 and $75,000.

Tex., Ft. Worth—Hospital—Johnson & Read let contract 3-story to BUTCHER & SWEENEY, Ft. Worth. About $40,000.

Tex., Ft. Worth—Office—C. B. Bryant let contract, East 3rd St., to J. D. GRUNDY, Charlotte.

Tex., Houston—Courthouse and Jail—Harris County let contract to N. C. JENSEN, Clark St. Rd., Houston.

Tex., Paris—High School—City let contract 2-story to FOSTER & VARNER, Paris, $85,000. Noted Nov. 23.

Okla., Ardmore—Office—R. A. Simpson let contract 6-story, brick to RUSSELL BROWN CO., Dallas, Tex., $100,000. Noted Dec. 7.

Colo., Pueblo—Auditorium and City Hall—City let contract SEERIE & VARNUM, Denver, $195,742. Noted Nov. 2.

Ore., Astoria—School—School Dist. No. 1 let contract to ASTORIA CONSTRUCTION CO., Astoria. About $61,857. Noted Nov. 30.

Calif., San Diego—Store and Loft—Peters Investment Co. received low bid, 2-story, 100x100-ft. from R. B. Shields, San Diego, $48,309.

Calif., Santa Barbara—Prince Hopkins Institution let contract 3-story, 100x150-ft. rein.-con. academy building to A. H. AVERY, Santa Barbara. About $60,000. Noted Nov. 9.

Que., Montreal—Office—Commercial Realty Co. let contract rein.-con. to C. E. MITCHELL, New Birks Bldg., Montreal. About $50,000.

Ont., Ottawa—Office—Norlite Real Estate Co. let contract to TRUSSED CONCRETE STEEL CO., 23 Jordan St., Toronto, $50,000.

BARGE CANAL, ALBANY, N. Y.

Contract No. 30-A

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., Albany, for Barge Canal work, Contract 30-A, completing Erie Canal between Jacksonburg and Herkimer, from (A) E. Brown Baker, Herkimer; (B) Engineer's Estimate. The item bids were as follows:

	A	B
1 clearing (lump sum)	$100 00	$100 00
93,620 cu.yd. excavation	95	90
30,100 cu.yd. forming embankment	15	15
68 M ft. b.m. wooden sheet piling	72 00	60 00
9,800 sq.ft. steel sheet piling	84	70
270 cu.yd. second-class concrete	7 50	7 50
4,430 cu.yd. wash wall	2 50	2 50
3,500 cu.yd. fourth-class rip-rap	2 40	2 60
Extended totals	$127,483	$122,013

BRIDGE, KANSAS CITY, MO.

71st St.

Bids were received by Bd. Park Comrs. for constructing 71st St. Bridge in Swope Park from (A) HORTON CONCRETE CONSTRUCTION CO., (awarded contract); (B) Concrete Construction Co.; (C) List-Gifford Construction Co.; Winston Bros. Co., $150,210; McMillan Construction Co., $152,294; Peterson Norton Co., $164,648; Gray Construction Co., $171,038; Missouri Valley Bridge and Iron Co., $177,852; Midland Bridge Co., $185,061; Union Building and Construction Co., $224,298. The item bids of the 3 lowest bidders were as follows:

	A	B	C
1,270 cu.yd. conc. in slabs, curbs, and f's' g'd's	$9 40	$11 00	$13 42
840 cu.yd. conc. in c-g'd's, c-b's, and s'p. g'd's	9 40	11 00	13 42
180 cu.yd. conc. in spandrel columns	9 40	11 00	13 42
680 cu.yd. conc. in arch ribs	9 40	11 00	13 42
1,420 cu.yd. conc. in piers above plinths	9 40	10 00	8 92
2,900 cu.yd. conc. in piers below plinths	9 40	9 60	7 15
960 cu.yd. conc. in pier bases	9 40	9 50	6 90
730 cu.yd. conc. in abutments	9 40	10 00	9 42
100 cu.yd. conc. in end monuments	9 40	12 00	16 00
1,370 lin.ft. conc. handrails	1 50	3 00	2 75
370,000 lb. reinforcing metal ¾-in. or over	045	045	045
260,000 lb. reinforcing metal under ¾-in.	0475	0475	044
2,200 lb. lead sheet for expan. joints	10	12	10
7,000 lb. w.-i. drainage pipes	05	06	05
3,000 lb. c.-i. inlet drops	05	05	05
18,000 lb. expan. plates, name plates, etc.	10	08	07
16 lamp posts	15 00	25 00	60 00
1,430 lin.ft. pipe conduits	20	25	40
1,430 lin.ft. cables for lighting systems	20	25	40
3,110 sq.yd. creosoted wood-b'l'k. paving	2 00	2 50	2 50
1,250 sq.yd. macadam paving on appr'ch's	1 00	1 25	1 50
560 lin.ft. conc. curbs on approaches	40	40	40
3,920 cu.yd. dry excavation-pier bases	2 00	1 25	1 90
1,840 cu.yd. wet excavation for pier bases	4 00	1 75	2 75
650 cu.yd. excavation for abutments	2 00	1 25	1 10
4,000 cu.yd. earth embankment	25	50	30
Removal of debris, etc. (lump sum)	10 00	100 00	500 00
Extended totals	$144,943	$149,423	$149,532

* The Seventy-first Street Bridge is to be of rein. con., consisting of 5 open-spandrel arch spans resting on columns founded on soapstone, 2 hollow box abutments resting on the soil, and an earth fill at the east end. The total length of the concrete structure is about 700 ft. and that of the earth fill about 280 ft. The floor of the bridge is on a 5 per cent. grade descending towards the east. It provides a roadway 40 ft. wide in the clear, and 2 walkways each 8 ft. wide in the clear. The roadway on the bridge proper will be paved with creosoted wood blocks, resting on a rein. con. slab, and that on the earth fill with macadam. The walkways on the concrete structure will consist of reinforced concrete slabs with a wearing surface ½ in. thick. Sidewalks will not be provided on the earth fill at the present time. Concrete handrails will be placed along both sides of the deck, extending for the full length of the concrete structure.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Elevated Railway Work

Bids were received by Pub. Ser. Comm. for elevated railway work, connecting link between New Utrecht Ave. (West End Line) and Culver Rapid Transit R.R., Sect. 1-A, Route 49 from (A) T. DWYER, Broadway and 215th St. (awarded contract); (B) Post & McCord; (C) A. L. Guidone & Son, Inc.; Oscar Daniels Co., $46,855; Cullen Contractnig Co., Inc., $47,000; B. Turecamo Contracting Co., Inc., $51,445; Johson-Gifford Co., $53,073; Kaufman & Garcey, $54,642; H. E. Ditmars, $62,749. The item bids of the 3 lowest bidders were as follows:

	A	B	C
3,500 cu.yd. earth excavation above M.H.W.	$1 50	$1 70	$1 10
300 cu.yd. railroad embankment in place	1 50	1 10	90
250 sq.yd. sodding slopes of railroad cut	50	55	1 35
1,250 cu.yd. earth excavation above M.H.W. sewers	1 50	1 90	1 75
1,430 cu.yd. concrete masonry in place	10 00	9 30	10 00
300 sq.yd. tooling concrete surfaces	1 00	1 10	1 00
920 lin.ft. reinforced concrete fence	4 00	3 80	4 50
10 cu.yd. rubble stone masonry	10 00	12 00	8 00
10 cu.yd. dry rubble masonry	8 00	10 00	6 50
10 cu.yd. brick masonry	15 00	25 00	15 00
10 cu.yd. removal of old masonry	5 00	22 00	4 00
5 bbl. grout of portland cement	4 00	2 00	15 00
100 lin.ft. timber piles in place	1 00	50	30
1 m.b.m. timber foundations	100 00	75 00	80 00
40 cu.yd. broken stone or gravel in place	3 00	2 70	3 00
50 sq.yd. waterproofing, 3-ply	1 00	1 30	2 00
700 sq.yd. waterproofing, without fabric	50	70	50
1,030 lin.ft. vitrified drain pipe, 8-in.	1 50	75	40
180 lin.ft. vitrified drain pipe, 4-in.	1 00	30	25
320 lin.ft. c.-i. pipe and fittings 4 in. extra heavy	1 00	1 35	50
2,820 duct ft. tunnel ducts	15	17	35
24,000 duct ft. railroad ducts	20	17	10
3,300 duct ft., 3½-in. w.i. or steel pipe R.R. ducts	20	70	60
1 ton riveted steel	200 00	150 00	160 00
1 ton steel beams and shapes	200 00	150 00	120 00
46 ton steel rods and bars	80 00	110 00	80 00
1 ton miscellaneous iron castings	100 00	75 00	90 00
1 ton miscellaneous iron castings, sewers	100 00	75 00	90 00
40 sq.yd. street surface restored	2 00	1 10	4 00
80 lin.ft. vitrified pipe sewer, 12-in.	3 00	1 60	80
160 lin.ft. vitrified pipe sewer, 18-in.	4 00	3 20	2 00
10 ton cast-iron sewer pipe, straight	60 00	90 00	70 00
1 ton cast-iron sewer pipe, special castings	120 00	100 00	100 00
Maintaining Culver line surface tracks (lump sum)	200 00	400 00	5,500 00
25 lin.ft. water pipe, 6-in.	2 00	1 30	1 50
25 lin.ft. water pipe, 20-in.	4 00	4 00	6 00
25 lin.ft. water pipe, 30-in.	6 00	6 00	13 00
25 lin.ft. water pipe, 36-in.	8 00	7 50	23 00
25 lin.ft. gas pipe, 4-in.	2 00	1 00	60
50 lin.ft. gas pipe, 8-in.	4 00	2 00	1 10
25 lin.ft. gas pipe, 16-in.	6 00	3 00	2 50
1 ton new c.-i. hub and spigot, straight pipe	60 00	90 00	90 00
1 ton new c.-i. hub and spigot, special castings	120 00	100 00	100 00
Extended totals	$42,268	$43,987	$44,853

TRADE PUBLICATIONS

Osgood "18" Revolving Shovel; ½- to ¾-yd. dipper. The Osgood Co., Marion, Ohio. Circular No. 18; pp. 16; 8½x11 in.; illustrated. Showing the application of this shovel to road grading, cellar excavating, railroad work, loading and unloading cars, dredging, etc. How shovel lifts itself to allow placing of planking. Lifting pieces of rock chained to the dipper.

Osgood "18" Revolving Steam Shovel. The Osgood Co., Marion, Ohio. Circular No. 14; pp. 12; 8½x11 in.; illustrated. Descriptive of this shovel as applied to trench excavating, using a narrow bucket ½- to ¾-yd.

Concrete Building Construction. American Concrete-Steel Co., Essex Bldg., Newark, N. J. Bulletin No. 1; pp. 12; 8½x11 in. This contains illustrations of various buildings erected by this company.

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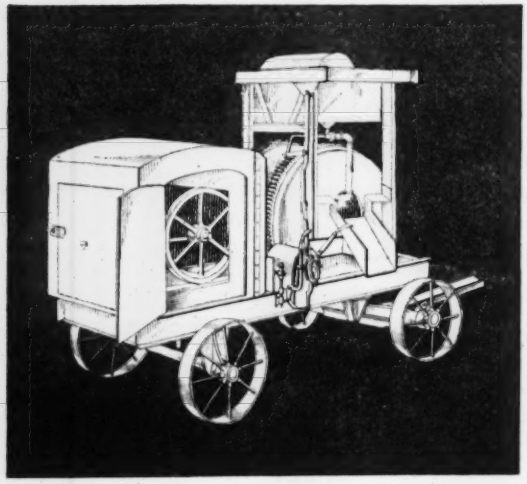

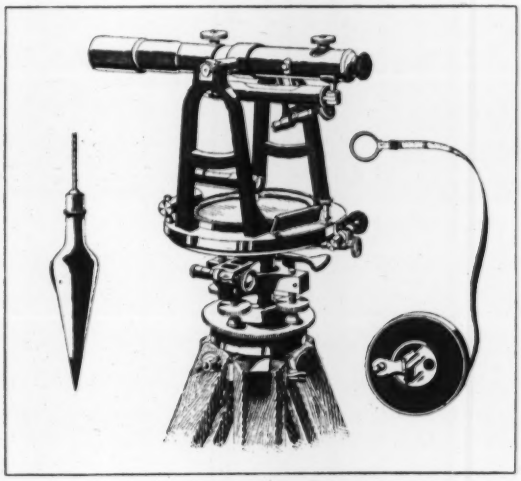

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SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Jan. 10, 1917.

Road Work

Freehold, N. J.

Sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the reconstruction of the Keyport-Red Bank road (1st section), in the townships of Raritan and Holmdel, in the County of Monmouth, with a Warrenite surface upon a concrete foundation; estimated amount of surface pavement required is 24,381 square yards, of foundation 24,381 square yards; and opened and read in public at the office of the Board of Chosen Freeholders, Court House, Freehold, N. J., on January 10th, 1917, at 11 a.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by George D. Cooper, County Engineer, and approved by the State Commissioner of Public Roads, have been filed in the office of said engineer at 60 Broad Street, Red Bank, N. J., and of said Commissioner at the State House, Trenton, and may be inspected by prospective bidders during business hours. Bids must be on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and the work on the outside, addressed to C. E. Close, Clerk of the Board of Freeholders, and must be accompanied by a certified check or cash for a sum not less than $1,000.00, and be delivered at the place and on the hour above named. The standard proposal form is atached to the specifications, copies of which will be furnished on application to engineer.

By order of the Board of Chosen Freeholders of the County of Monmouth.

C. E. CLOSE, Clerk.

JOHN M. CORLIES, Director.

Bids received until June 1, 1917.

Storm Water Pumping Plant

Corporation of Calcutta, India.

Tenders are invited in duplicate for Storm Water Pumping Plant and will be received by the Deputy Chairman of the Corporation up to 2 P.M. on Friday, the 1st June, 1917, when they will be opened in the presence of such tenderers as may be present. Each tender in duplicate must be enclosed in a sealed cover and superscribed "Tender for Storm Water Pumping Plant." Further particulars may be had by applying to the Chief Engineer, Municipal Office, Calcutta. Specifications, with site drawings, contract agreement, tender form and rules with regard to tenders, may be obtained from the office of the "Indian and Eastern Engineer," 50, Fenchurch Street, London, England (or at Calcutta from the Secretary to the Corporation), on payment of Ten Shillings for each combined copy. Tenderers must abide by the Corporation rules in regard to tenders. Tenders must hold good for at least two months from the date of opening of the same.

Central Municipal Office,
The 23rd October, 1916.

C. C. CHATTERJEE,
Secretary to the Corporation.

Bids received until Jan. 11, 1917.

Sewer Construction

OFFICIAL NOTICE NO. 21.
PUBLISHED BY AUTHORITY OF THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE.

Milwaukee, Wis.

Sealed proposals for the construction of extension to the Intercepting Sewer System for the City of Milwaukee, Wisconsin, will be received by the Sewerage Commission of said city at its offices in the City Hall until 2:00 P.M., the 11th day of January, A.D. 1917, at which time and place during the session of said Commission the proposals will be publicly opened and read.

The work to be done embraces the building of the following work:

13,551 lineal feet 72-inch concrete sewer in tunnel.

66 lineal feet 30-inch concrete sewer in open cutting.

511 lineal feet 12-inch terra cotta pipe sewer in open cutting.

660 vertical feet of standard manholes.

150 vertical feet of drop manholes.

19 manhole frames and covers.

Together with all manholes and other appurtenances.

The time allowed for the completion of this contract shall be eighteen (18) months from the date of the engineer's notice to begin work.

The liquidated damages for not completing the work within the time above stated shall, for each day in excess thereof, be an amount equal to one-half of one percentum of the aggregate cost of the work embraced in the contract.

Each proposal submitted must be accompanied by a cash deposit of, or, in lieu thereof, by a certified check drawn upon a National or State Bank or Trust Company, and to the order of the "Sewerage Commission of the City of Milwaukee" to the amount of sixty thousand dollars ($60,000.00).

All cash deposits or certified checks deposited by bidders to whom the contract is not awarded will be returned upon application to the Secretary of the Sewerage Commission after the contract has been awarded, or after the rejection of all bids. The cash deposit or certified check which has been deposited by the successful bidder will be returned to him as soon as the contract is properly executed and approved by the City Attorney and Sewerage Commission.

Specifications and blank forms of proposals can be obtained, and detailed plans examined, at the office of the Sewerage Commission in the City Hall, and a full set of plans will be sent to any contractor upon receipt of five dollars ($5.00), this sum to be returned upon surrender of the plans in good condition.

The Sewerage Commission of the City of Milwaukee reserves the right to reject any and all bids submitted.

J. H. FOWLES, Secretary.

Countersigned:
A. P. PUELICHER, Deputy Comptroller.

PROPOSAL FOR BULKHEAD, U. S. Engineer Office, Customhouse, New Orleans, La.—Sealed proposals will be received here until 11 A.M., Jan. 16, 1917, and then opened for bulkhead at Southwest Pass, Mississippi River. Information on application.

Bids received until Jan. 10, 1917.

Bridge Superstructure

DEPARTMENT OF PUBLIC WORKS
Chicago, Dec. 13th, 1916.

Sealed Proposals will be received by the City of Chicago until 11 A.M., Wednesday, January 10th, 1917, at Room 406, City Hall, for furnishing, constructing and erecting superstructure for a Strauss Direct Lift Bridge over the South Branch of the Chicago River, at West 12th Street, according to Plans and Specifications on file in the office of the Department of Public Works of said City, Room 406, City Hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, indorsed "Proposals for Superstructure — 12th Street Bridge," and be accompanied with Ten Thousand ($10,000.00) Dollars in money or a certified check for the same amount on some responsible Bank located and doing business in the City of Chicago and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

A cash deposit of $50.00 will be required for the return of plans and specifications.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities together with sufficient pecuniary resources to fulfill the conditions of the Contract and Specifications, provided such contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

W. R. MOORHOUSE,
Commisioner of Public Works.
By WM. BURKHARDT,
Deputy Commissioner.

Bids received until Jan. 16, 1917.

Street Paving

Wilkes-Barre, Pa.

Sealed Proposals will be received until Tuesday, January 16, 1917, at 12 o'clock Noon, for paving Nineteen (19) streets in the City of Wilkes-Barre, Pennsylvania. 45,000 square yards of sheet asphalt, 4,400 square yards of brick and 35,500 lineal feet of stone or concrete curbing. Write B. K. Finch, City Engineer, for specifications. Address bids to Fred H. Gates, City Clerk.

M. C. MURRAY,
Superintendent of Department of Streets and Public Improvements.

PROPOSALS FOR AIR COMPRESSORS ETC.—U. S. Engineer Office, Pittsburgh, Penn.—Sealed proposals for furnishing and delivering two air compressors and one water turbine complete, with gear drive, at Lock No. 3, Monongahela River, will be received at this office until 12 M. (Eastern Standard Time), December 29, 1916, and then publicly opened. Information on application.

LOCK AND GUIDE WALLS—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), December 30, 1916, and then opened, for constructing lock and guide walls for Dams Nos. 23 and 25, Ohio River. Information on application. Bids received until Dec. 27, 1916

SPECIAL OPPORTUNITIES SECTION

Miscellaneous

Bids received until Jan. 9, 1917.

Canal Improvements

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS.
Albany, Dec. 21, 1916.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, January 9th, 1917, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto, and Chapter 570 of the Laws of 1915, as follows:

CONTRACT NO. 155.
Erie Canal—Section 2.

For furnishing and installing seven hoists for the operation of the bulkhead gates in the north end of the Vischer Ferry dam; to be completed within two months after the date of the execution of the contract. Estimated cost, $9,998.00. The plans consist of five sheets, numbered 1 to 5 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

Bids received until Jan. 9, 1917.

Building Construction

Cobleskill, N. Y.

Sealed proposals for Construction, Heating, Plumbing and Drainage and Electric Work for Dairy Building at Schoharie State School of Agriculture, Cobleskill, N. Y., will be received by Hon. D. D. Frisbie, President, Board of Trustees, Agricultural Hall, State and Lodge Streets, Albany, N. Y., until 2:30 o'clock P.M. on Tuesday, January 9, 1917, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5 per cent.) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50 per cent.) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 2563, 2648, 2649 and 2650. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Schoharie State School of Agriculture, Cobleskill, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Dated December 18, 1916.

Employment Department

ANSWERS addressed to us at 10th Ave. and 36th St., New York, or 1144 Monadnock Block, Chicago, will be forwarded without charge (excepting circulars or similar literature).

IMPORTANT: Original letters of recommendation or other papers of value should not be enclosed to unknown correspondents—send copies. Advertisers' names will not be furnished under any circumstances. Copy received until 10 a.m. Wednesday for Thursday's issue.

Positions Open

EXPERIENCED RAILROAD DRAFTSMAN wanted; one familiar with track layouts, reinforced-concrete masonry, etc.; state age, education, experience, references, least salary considered and inclose small sample of work; college graduate preferred. Address R. P. Forsberg, assistant engineer, P. & L. E. R.R., Pittsburgh, Penn.

DETAILERS AND CHECKERS wanted on structural steel work. Apply in person to Hedden Iron Construction Co., West Elizabeth, N. J.

SEVERAL FIRST-CLASS DRAFTSMEN wanted on structural steel and bridge work; permanent positions and excellent opportunity for advancement for men who show ability above the average; in replying state age, experience, salary expected and when available. Box 97, Buffalo, N. Y.

EXPERIENCED RAILROAD DRAFTSMAN wanted for general field and office work, for railroad near Cumberland, Md.; must be a good letterer; state experience and salary desired. Address P. O. Box 604, Cumberland, Md.

Employment Agencies

The Agencies advertising here agree to refund any registration fee on demand any time within the first six months when no position is secured.

H. H. HARRISON CO., Association Bldg., Chicago, registers high-grade manufacturing executives, technical, semi-technical and commercial men. Forward complete data of requirements for immediate attention.

GENERAL ENGINEERING AGENCY, Pittsburgh, Penn., requires tracers, draftsmen, designers; Eastern and Western vacancies; no advance charges; daily notices until placed.

LABOR BUREAUS

EMPIRE LABOR AGENCY, 93 Mulberry St. (Tel. 1745 Franklin), New York Laborers and mechanics, furnished for all kinds of construction works, free of any fee, provided transportation is advanced. Also commissary conducted.

Correspondent

THE UNDERSIGNED plans and conducts correspondence for positions in technical, manufacturing and professional lines for $2,500 to $15,000 men exclusively. Complete privacy assured. No commission charged—only service fee and postage. Send name and address only, in confidence, for prefatory details. R. W. Bixby (Established 1910), T1 Niagara Square, Buffalo, N. Y.

Positions Wanted

Civil Engineers

TECHNICAL GRADUATE, three years' field and office experience, desires change with opportunity. PW855—Eng. News.

SPECIAL OPPORTUNITIES SECTION

Miscellaneous

ENGINEER wishes permanent position, preferably with bond house or trust company, to investigate and report on Western construction propositions, work under construction, supervision or preliminary investigations; technical graduate, Asso. M. A. Soc. C. E., age 33, married; 12 years' experience in responsible charge of engineering construction, steam and electric railroads, large bridges, reinforced concrete; a man with splendid, clean record; now employed; familiar with Western work and conditions; salary to start, $3,000. PW806—Eng. News, Chicago.

CIVIL ENGINEER, graduate Massachusetts Institute of Technology, 1905, desires responsible position in New York City; experienced in railroad, tunnel and highway work; for the last four years has been a contractor and completed over half-million dollars' worth of work; minimum salary, $4,000. PW825—Eng. News.

CIVIL ENGINEER, university graduate, 23, three years' experience, building, railroad, subway construction, now employed, desires position where merit and diligence will count; location immaterial. PW841—Eng. News.

GRADUATE CIVIL ENGINEER desires position as executive, engineer or superintendent of construction with industrial corporation; 11 years' experience engineering and construction of plants. PW 847—Eng. News.

CIVIL ENGINEER—Graduate civil engineer, Rensselaer Polytechnic Institute, two years heavy concrete construction, three years pavements, sewers, etc., and two years in general contracting business. PW849—Eng. News.

CIVIL ENGINEER, technical graduate; four years' experience on construction; builder or contractor preferred; anywhere. PW852—Eng. News.

CIVIL ENGINEER, technical education; nine years' experience structural, municipal, irrigation engineering; specialist reinforced-concrete design and construction; married; location preferred, Western States, Hawaii, South America; employed. Box 1271, Tucson, Ariz.

GRADUATE CIVIL ENGINEER, 31, with wide experience in designing, estimating and superintendent reinforced concrete and all types of buildings, factories, warehouses, power houses, heavy construction work, piling, etc., open for engagement; Eastern interview; state salary and nature of work. PW850—Eng. News.

Bridge and Structural

STRUCTURAL STEEL DESIGNER AND ESTIMATOR, technical graduate, eleven years' experience field, shop and office, surveying, detailing, estimating, selling, designing, buildings and bridges. PW 835—Eng. News.

RATES

UNDISPLAYED

"Positions Wanted," 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

"Positions Open" and all other undisplayed Want and For Sale advertisements, 5 cents a word, minimum charge $1 an insertion.

(*When replies are to be received in our care, allow four words for the box address.*)

DISPLAYED

1 inch one time—$2.00. Rates for larger spaces and longer terms furnished on request. Advertisements for bids (Proposals) $2.40 an inch.

STRUCTURAL ENGINEER, technical graduate; 12 years' experience, field, office, inspection, designing, chief draftsman and assistant chief engineer; executive ability; first-class references. PW854—Eng. News.

STRUCTURAL ENGINEER, technical graduate, age 35, 14 years' experience in detailing and designing structural steel and reinforced concrete, now holding responsible position, desires change. PW 844—Eng. News.

STRUCTURAL STEEL ENGINEER and salesman, 17 years selling, estimating, designing, checking, desires position as sales engineer or office engineer. PW845 —Eng. News.

Draftsmen

DRAFTSMAN (civil engineering) and instrumentman, best references, married, wants position in Washington, Oregon, Idaho, Montana or California. Write P.O. Box 465, Seattle, Wash.

Superintendents

SUPERINTENDENT of construction; first-class executive, broad experience; difficult foundations, locks, dams, bridges, building and industrial plant construction; concrete a specialty. PW1,001—Eng. News.

BRIDGE AND STRUCTURAL SHOP SUPERINTENDENT of ten years' experience wants situation. PW786—Eng. News.

SUPERINTENDENT OR MANAGER—American, age 42, technical education, long experience in building construction as contractor, superintendent, designer, estimator, etc., wishes to connect with parties contemplating extensive construction work; references furnished; liberal salary expected; available Jan. 1. PW827—Eng. News.

ASSISTANT BUILDING SUPERINTENDENT by technical graduate with six years' experience on construction, estimates and surveys. PW848—Eng. News.

Miscellaneous

INSTRUCTOR—Graduate civil engineer, two years' experience, wants position as instructor in a university; location immaterial; will furnish A-1 references. PW810—Eng. News.

FACTORY ARCHITECT—A practical man of wide experience, good executive, desires permanent connection with manufacturing concern; salary $3,000. PW 851—Eng. News.

FOREMAN—All-round man on concrete construction and form work wishes position. W. H. Winfield, 228 West 149th St., New York.

Wanted

EXPERT will prepare plans and details of reinforced-concrete structures at very reasonable rates. Leer, 632 Filmore Pl., West New York, N. J.

Agents and Salesmen

ASSISTANT TO SALES MANAGER—Position as assistant to sales manager or as advertising manager wanted by mechanical engineer; several years' experience all branches of publicity in mining, contracting and power-plant fields; little actual selling experience; resourceful as writer and correspondent; tactful; used to responsibility and working under pressure; salary about $3,000. W843—Eng. News.

TECHNICAL GRADUATE, age 27, five years' experience designing and detailing steel and reinforced concrete for buildings, bridges, etc.; also some sales experience; desires connection with sales engineering force of concern where experience can be utilized. W846—Eng. News.

Business Opportunities

UNEQUALED OPPORTUNITY—Invention of important use needed for every family; patent is to be sold or given for license first on the market. Apply to V. Montalto, 330 East Third St., South Bethlehem, Penn.

GOOD LETTERERS WANTED

Preferred everywhere—the man proficient in my system, the "Engineering News" style of lettering. Taught by mail only. Results guaranteed.

C. W. Reinhardt
Arlington, New Jersey

Freehand Lettering

AMERICAN-ITALIAN EXCHANGE

SPECIALISTS IN SUPPLYING LABOR

Commissary Privileges Optional
Established 1900 Best References
Tel. 527 Spring 49-51 Prince St., N. Y. City

ESTABLISHED Manufacturers Agents to sell high-grade concrete floor specialty. Advertised line. State age and lines now handling.
W 842—Eng. News

STRUCTURAL DRAFTING

A new correspondence course of instruction and work leading up to actual (paid) experience.

STRUCTURAL STEEL DESIGNING

A complete course of instruction and work reproducing all the conditions of actual experience. By mail only.

REINFORCED CONCRETE ENGINEERING

In its fourth year of successful operation. This course has established a reputation among engineers that is not equalled by any similar correspondence course on this subject.

M1000—Engineering News

Newman Clock Company

Solicits watchclock repairs. Work correctly and promptly done. Dials at lowest prices.

178 Fulton St., New York
565 W. Washington Blvd., Chicago

Answering "Want" Ads:

Answers to advertisements on the Want pages should always be addressed to the box number given in the advertisement like this:

P1001
c/o Engineering News,
10th Ave. at 36th St.,
N. Y. City

or

P1001
c/o Engineering News,
1144 Monadnock Blk.
Chicago, Ill.

Letters that do not give the advertisers' box number are subject to delay in forwarding.

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment

FOR SALE

Tug Boat—
61x14x6
Two Deck Lighters—
90x30x10

Lewter F. Hobbs, Norfolk, Virginia

WANTED

Contractors' plants and equipment bought for cash.

Pipe & Contractors Supply Co.
3 Dover Street - New York City

WANTED

STEEL PILING

All makes, widths, lengths. Give lowest price and full particulars of any Piling that you have to dispose of.

W 745—Eng. News, Chicago

WANTED—One Second-Hand

DREDGE

complete. About 35x60 ft. Must be in good condition. Address:

The Edward Balf Co., Hartford, Conn.

FOR SALE—One Browning 1 yd.

Orange Peel Bucket

practically new.

PENNSYLVANIA WATER & POWER CO.,
1611 Lexington St. Bldg. Baltimore, Md.

Steel Sheet Piling

400 pieces 9 in. 16 lb. U. S. 18 ft. long.
200 pieces 12½ in. 38 lb. U. S. 30 ft. long.
400 pieces 14 in. Lackawanna 35 ft.long
594 Pieces 14 in. Lackawanna 30 ft.long
128 pieces 14 in. Lackawanna 20 ft.long
291 pieces 12¾ in. Lackawanna, 20 ft. long.
1—No. 1 Vulcan Hammer with McDermid base.
1—No. 3 Vulcan Hammer.

GRANVILLE SUPPLY CO.,
St. Louis, Mo.

FOR SALE

Locomotive Crane

20-25 ton McMYLER, standard gauge, 8-wheel, double drums, for operating bucket, 50 ft. boom, outriggers, extra heavily built, immediate shipment.

DALLETT & COMPANY,
413 Harrison Bldg., Philadelphia

RATES:

1 inch— $2.00
4 inches— 1.90 an inch

(The above rate applies to a 4-inch space in one issue, a 2-inch space in two issues, or a 1-inch space in four issues. The larger spaces following may be used up in a similar way.)

8 inches—$1.80 an inch
15 inches— 1.70 an inch
27 inches— 1.60 an inch
100 inches— 1.50 an inch

WANTED

Koppel or similar V-shaped two-way

DUMP CARS

two yard capacity, 36 in. gauge.

Morris County Crushed Stone Co.
Morristown, N. J.

WANTED

Steubner, self-righting, tip-over

BUCKETS

¼ to 2 yards capacity

W 752—ENGINEERING NEWS

HOISTS

Compressors - Boilers - Mixers
Derricks - Cableways

For Sale or Lease

HOISTING ENGINE SALES CO.
Grand Central Station, New York

FOR SALE
SECOND HAND MACHINERY
at Rockford, Illinois

One—70-ft. Stiff leg Derrick; American fittings; trussed boom; fine condition; one year old.
One—7½x10 Flory Hoisting Engine, D.C., D.D.
One—40 H.P. Loco. type Boiler; one year old.
One—50 H.P. Loco. type Boiler; six months old.
Two—1½ yd. drop bottom Monarch Concrete Buckets.
Four—1½-yd. Tip Concrete Buckets.
One—Davis-Bournonville Acetylene Cutting and Welding Machine.
One—Standard Push Car.
One—No. 2 Vulcan Steam Hammer; McDermid base; nine months light usage.
One—No. 7 McKiernan-Terry Steam Hammer; one year light usage.
One—No. 44 Koehring one yard Concrete Mixer with steam engine; latest model; mixed 1,800 yds. concrete; fine condition.
One—No. 3 Emerson Pump; fine condition.
One—No. 6 American Centrifugal Pump; hose and valve.
One—Blacksmith Outfit.
214 pieces ¼x14 in. Lackawanna Arched Web Steel Piling, 25 ft. long; eight fabricated corners for same, 25 ft. long.
Two—pieces same piling, 15 ft. long.
Four—pieces same piling; 20 ft. long; all in first class condition.

H. W. NELSON COMPANY,
210 S. La Salle St., Chicago, Ill.

'Phone, Wabash 5775

FOR SALE

January 9, 1917, one 10-in. Kingsford

Centrifugal Dredging Pump

500 ft. 10 in. steel pipe; ten 10 in. x 30 in Rubber Dredging Sleeves and one Manganese Runner. Apparatus purchased three years ago but never used. Excellent condition. Sealed bids to **Commissioner of Purchases and Supplies, Toledo, O.,** with certified check for 5% of bid.

this advertisement

might be your own and get you the attention of other readers of Engineering News. They number over 20,000.

Have you anything to sell them?

LOCOMOTIVE CRANES

1—15-ton, 8-wheel Browning.
1—15-ton, 4-wheel McMyler.

BOILERS

5—100-hp. Economic, butt strapped. Comparatively new. A-1 condition.

Herbert Givin Co., 30 Church St., New York

BRIDGES

Highway drawbridge for sale, for delivery in spring of 1916. Through span 176-ft. swing bridge, center support, 20-ft. clear roadway, with one 4-ft. sidewalk; steel trusses and floor beams with wooden stringers and floor plank; designed to carry one 40-ton car on one span; electric operation; built in spring of 1915.

For further information apply to

Holbrook, Cabot & Rollins Corpn.
6 Beacon St., Boston, Mass.

If

you own any idle contractors' equipment—

If you want to sell it—

If you use this space to advertise it—

Then

Engineering News readers will have the opportunity of buying it from you.

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment

ELECTRIC MOTORS

The largest stock of NEW Westinghouse and General Electric MOTORS in United States. Sizes from ½ to 100 H.P. All brand new in original crates. WRITE OR WIRE us for complete list.

HARRIS PUMP & SUPPLY CO.
320 SECOND AVENUE - - - PITTSBURGH, PA.

USED
TRANSITS AND LEVELS
ALL MAKES
W. J. BUFF, 50 Church St., N. Y. City

We Buy
Used Engineering Instruments
What have you to offer?
WILLIAMS, BROWN & EARLE, INC.
918 Chestnut St. - - Philadelphia

AT ONE-THIRD COST
Smith 2¼ yd., Cushing type, orange peel
BUCKET
new, has never been used. Inspection at
J. S. Mundy Hoisting Engine Co.
Newark, N. J.

For Sale—2 First-Class 60-ton standard gauge six-wheel
Switcher Locomotives
Thoroughly MCB and will pass any inspection.
THE FRED R. JONES CO.
City Hall Sq. Bldg. - Chicago, Ill.

WANTED
Transits and Levels
Best cash prices paid.
THE ENGINEERING AGENCY, Inc.
Dealers in new and used engineering instruments.
Monadnock Block, Chicago

AIR COMPRESSOR
FOR SALE
Capacity 310 cu.ft., belt driven; complete with 50 H.P. General Electric Motor, 220 v., D.C. and air receiver.
HUBBARD & FLOYD,
90 West Street, New York City

FOR SALE—2 Keystone
EXCAVATORS
10-ton Kelly-Springfield
GASOLINE ROLLER
Mixers, Crushers, Boilers, etc.
KNAPP MACHINERY SUPPLY CO.
122 Liberty St. New York City

FOR SALE—Type "O" Thew
STEAM SHOVEL
high number, Mass boiler, practically good as new.
W. I. SKELETON BUILDING
72 ft. x 42 ft., 25 ft. columns, 18 ft. apart, 2 story.
LOCOMOTIVE CRANES
from two to forty tons.
DALLETT & COMPANY,
413 Harrison Bldg. Phila., Pa.

IMMEDIATE SHIPMENT—12
20 in. I-BEAMS
30 ft. long, tied in the center, in pairs, like new. Also all sections of "T" rail.
M. K. FRANK, Frick Bldg., Pittsburgh, Pa.

FOR SALE
Thew "O"
STEAM SHOVEL
Thew "A-1" Steam Shovel.
JAS. S. BRADEN
26 Cortlandt Street New York City

35-TON STEEL DERRICK
Stiff leg, 125-ft. boom, bull wheel.
LOCOMOTIVE CRANES
1 each—Ohio, McMyler, Exeter.
REVOLVING STEAM SHOVEL
½—¾-yd. traction, cast steel.
TITAN EQUIPMENT CO.
30 Church St., N. Y. City (Cort. 1111)

FOR SALE—10x16
Vulcan Locomotive
(36-in. Gauge). Shop Number over 1,700. Like new. Bargain $1,400.
The New York Purchasing Agency, Inc.
76 Pine Street - - New York City

ROLLERS FOR SALE
Bargain in a practically new ten ton roller, and in a six ton roller. Contractor going out of business. Right prices for quick sale.
FS 743—ENGINEERING NEWS.

Chicago House Wrecking Co.

Offer these and many other snaps. Available at once, for quick shipment.

1—2½-yard 70-ton Bucyrus Steam Shovel.
1—3-ton Meller standard gauge 8-wheel Locomotive Crane; self-propelling 50-ft. boom.
2—Baldwin 8-wheel Locomotives. Cylinder 15-in. diameter; 18-in. stroke; 36-in. gauge; complete with tender.
1—10x12 Flory Hoist; 3 drums; double cylinder; complete with 2 direct-slewing drums; main drums are 18-in. diameter, 31 in. between and 12-flanges. Capacity 70 tons.
1—Lidgerwood 3-drum Hoist with 8¼ x10-in. double cylinder engine; with 36-in. diameter and 4-ft. boiler drums, 14-in. diameter, 22 in. between flanges and 7-in. flanges.
1—Strawsburg 3-dum 8¼-in. x 10-in. double-cylinder hoisting engine, complete with slewing drums; drums are 16-in. diameter and 28 in. between flanges; 7-in. flanges.
1—Smith ¾-yard Portable Batch Concrete Mixer connected to a 7x8 Mansfield steam engine with a 30x7½-ft. boiler; outset mounted to an 8-in. stand on "I" beams; tilting lever discharge. 18—14-ft. lengths of 26-in. galvanized perforated screening; ⅞ holes, 12-gauge material with flanges on each end.

20 miles of 20-in. spiral riveted steel pipe; standard lengths; asphalt coated, baked on; Abendroth & Root make. Root bolted wrought-steel joints. This pipe was just secured by us in our purchase of a complete water-works in operation less than 30 days.

3,500 sections of steel pipe, made up for an export order but never shipped. All sizes from 12-in. to 42-in. diameter in 8-ft., 16-ft., 24-ft., 32-ft. and 40-ft. sections. Waterproofed corked seams. Just the thing for piping, culverts, smokestacks, etc.

Western and Oliver 12-yard all-steel either side dump cars. We have a large number on hand for rent or sale.

6—18-cu.ft. all-steel "V"-shaped dump cars fitted for 20-gauge track, 12-in. wheels.

10,000 standard iron body valves—float valves, foot valves, check valves, globe valves, gate valves, angle valves, cross valves—made by Crane Co., Kelly & Jones and Chapman Valve Co. Good condition—never in use. Priced at 75% off standard list.

Complete Railroad consisting of 50 miles 30-lb. rails, car trucks, hand cars, logging cars, frogs, switches, jacks, track tools and all equipment.

What can you use? Name your wants or ask for complete list now.

Complete 160-page buyers' guide of every needed item in all equipment secured in our numerous complete plant purchases. New copy just off the press. Write for this list now, E.N. No. 301.

Address: HARRIS BROS. CO., Owners
35th and Iron Streets - - - - Chicago, Ill

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment

RAILS

We have for prompt shipment:—

65 tons 35-lb. Relaying Rails
7 miles 30-lb. Relaying Rails
11 miles 40-lb. Relaying Rails

Also a LARGE TONNAGE of 56 to 75 lb. Relaying Rails with angle bars.

EQUIPMENT

Passenger and Freight Cars.

LOCOMOTIVES

Dump Cars Spreader Cars

STEAM SHOVELS

Drag Lines Cranes

We have anything you may want in the way of high class equipment.

GET OUR PRICES

The Isaac Joseph Iron Company
525-535 Reading Road Cincinnati, Ohio

AIR COMPRESSORS

1—Ingersoll-Rand full Corliss steam-driven, 3,600 cu.ft.
1—Ingersoll-Rand full Corliss steam-driven, 2,100 cu.ft.
Both machines absolutely new.
1—Ingersoll-Rand Class "O-3" steam-driven, 1,650 cu.ft. Three years' service, excellent condition.
2—Ingersoll-Rand cross compound, steam and air cylinders, with Corliss valve gear, 3,300-cu.ft. capacity. Boilers and condensers with this plant. All in good condition. Bargain.
1—Rand Class "C" 98-cu.ft. straight line steam driven.

GAS AND OIL ENGINES

One 8-h.p. vertical type Fairbanks with sub base.

PUMPS

1—Cameron 3½x2x4 steam.

GENERATING UNIT

1—165 KVA Crocker-Wheeler Generator 2,300 volts, 3 phase, 60 cycle, 120 r.p.m. with exciter and switch board, direct connected to 10 in. and 20 in. x 36 in. stroke compound Harris Corliss Engine with Blake-Knowles Jet Condenser.
Excellent condition. Information upon request.

GEO. H. SAMPSON CO.
13 Pearl St., Boston, Mass., and 32 Bway., N. Y. C.; or Winston & Co., Brown Station, N. Y.

LOCOMOTIVE CRANE

FOR SALE

20 ton INTERSTATE, standard gauge eight wheeler, 50 ft. boom, rigged to operate a two line grab bucket. Built 1910, good working order. Prompt shipment from New York State.

Price: $7,800 f.o.b. tracks.

Have several others if this don't suit.

WM. B. GRIMSHAW CO.
688 Drexel Bldg. Phila., Pa.

Sheet Piling

400 lineal feet Trench Piling, 14 ft. long
400 lineal feet Trench Piling 16 ft. long
400 lineal feet Trench Piling 18 ft. long
Wemlinger 2-clip Piling, 9½ lbs. per square foot.

P. O. BOX No. 1203,
Atlanta, Ga.

Ingersoll-Rand Air Compressor

FOR SALE

1—22¼ x 14¼ x 14-in. Class "JC" Air Compressor — No. 8130 H.P. and 8131 L.P. complete. This machine is for all practical purposes as good as new, having been in actual service less than two years.

RACINE STONE COMPANY
Corn Exchange Building Chicago, Ill.

FOR SALE

16 in. x 36 in. Hughes & Phillips **Corliss Engine,** 150 H.P.
20 in. x 42 in. Hughes & Phillips 350 H. P. **Corliss Engine.**
250 K.W. 125 V. Westinghouse D.C. **Generator.**
125 V. 1,000 Amp. Walker Electric **Generator.**
12 in. x 12 in. x 7½ in. Norwalk 2-stage **Air Compressor.**
The above machines may be seen at the below address.

J. L. LUCAS & SON
No. 3 Fox St., Bridgeport, Conn.

RAIL

FOR SALE

About 40 tons 60-lb. Steel Rail, with splices, bolts and nuts. Prompt delivery. Never used.

DALLETT & CO.
413 Harrison Building, Phila., Pa.

FOR SALE

DRAGLINE

Monighan Dragline for Sale at a bargain if taken at once, Located at 13th Ave. and Harrison St., Maywood, Ill.

RUSSELL & ASHDOWN CO.
Chicago Heights, Ill.

FOR SALE

100 H.P. Sotter R.T. **BOILER,** butt-strapped, 100 lbs.
150 H.P. Heine Safety **BOILER,** water tube, butt-strapped, complete.
11 x 10 R.H. Harrisburg standard slide valve, self-oiling, horizontal **STEAM ENGINE,** direct connected to a 40 Kw. D.C. Generator.

DALLETT & CO.,
413 Harrison Building Phila., Pa.

IMMEDIATE DELIVERIES

LOW PRICES FIRST-CLASS PLANT

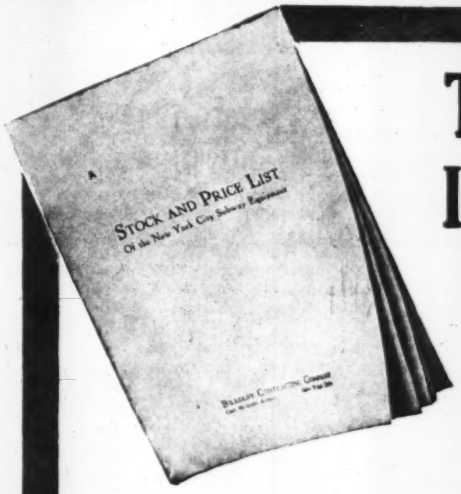
18 Western 12 yard standard gauge Air Dump Cars.
52 Western 4 yard 36 in. gauge Dump Cars.
2,300 Dinkey Ties for 36 in. gauge track.
A number of Vulcan, Porter and Davenport Locomotives, 24, 36, 42 in. and standard gauges. Ranging in size from 6 to 60 tons.
A number of Steam Shovels, both revolving and railroad types, all sizes.
Portable Track, Relaying Rails in all sizes.

WIRE—WRITE—'PHONE

CONTRACTORS' MACHINERY & SUPPLY CO.,
504-6-8 Wabash Bldg., Pittsburgh, Pa.

SPECIAL OPPORTUNITIES SECTION

Second Hand Equipment



The Bradley Price List Is Crowded With Items Like These —

Item

CONCRETE MIXERS

225 1 Ransome Direct-Connected Electric Concrete Mixer, size No. 63, 40 cu.ft., Westinghouse direct-current motor, style S, 30 hp., volts 220, amp. 113.5 1,025, r.p.m., style 45571B.
226 1 Ransome Direct-Connected Steam Concrete Mixer, size No. 63, 40 cu.ft.
227 1 Ransome Direct-Connected Electric Concrete Mixer, size No. 63, 40 cu.ft., Westinghouse direct-current motor No. 7, type S, 30 hp., 220 volts, 113.5 amp., 1,025 r.p.m., style 45571B.
228 1 Lakewood Direct-Connected Electric Concrete Mixer motor No. 352803 type CVC, form A2, speed 700, volts 230, hp. 10, amp. 37.2.
230 1 Ransome Direct-Connected Steam Concrete Mixer, size No. 63, 40 cu.ft.
231 1 Foot Gasoline Shaft Paddle Blade Concrete Mixer, on wheels

ELECTRIC MOTORS

236 Crocker Wheeler Electric Motor No. 2428, ½ hp., size ½, CM, speed 1200, amp. 4, volts 115.
237 Continuous-Current Motor, shunt-wound, No. 156789, type C-5, form A39, speed 1150, volts 220, open hp. 5, amp. 20, closed hp. 3½.
238 Crocker Wheeler Electric Motor, no plate, size 251, type CM, 35 hp. at 750 r.p.m., 230 volts, 90.5 amp.
239 1 Small 5-hp. Electric Motor.
240 Crocker Wheeler Electric Motor No. 82225, size 251, type CM, 25 hp. at 750 r.p.m., 230 volts, 90.5 amp.
242 General Electric Motor No. 1760, class 4, 9, 850, form A, amp. 36, volts 250, hp. 10, speed 800.

SHOP MACHINERY

251 1 Pipe Machine No. 807, size ¼ in. to 3-in., Williams Tool Co., belt drive.
253 1 16-in. Drill Press, belt drive.
254 1 Double 20-in. Emery Grinder, belt drive.
255 2 36-in. Grinding Stones on iron frame, 36 in. x 6 in., belt drive.
259 1 20-in. Drill Press, belt drive.
260 1 Bolt Machine, size 1¼ in., belt drive, Wells Bros.
261 1 Up-Setting Machine, size 1-in. to 4-in.
262 1 Tire Banding Machine, size 4-in.
263 1 Bolt Machine, size 1¼ in.
264 1 Watson & Stillman Rod Cutter.
265 1 Singer Sewing Machine, 7-9 direct electric connected.
270 1 1-Cylinder Ames Steam Engine, size 9x12, furnished by Wickes Bros., No. 2398.
271 1 1-Cylinder Steam Engine, size 8x12, Erie Engine Works.
268 1 Ajack's Drill Sharpener.
269 1 Large Electric Search Light.
273 1 Steel Frame Wooden Plank Planer, 25 ft. long, Glen Cove Machinery Co.
274 1 Plank Press, 35 ft. long.
275 1 Road Engine, locomotive type, on wheels, American Road Machine Co., with 12 in. x 16 in., portable Champion crusher.
276 1 Upright 1-Cylinder Steam Engine, 6½ in. x 4 in.
277 1 1-Cylinder Steam Engine, 7x4.
278 1 Blackburn Ventilator Wheel, 5-ft. wheel, direct-connected electric motor, volts 220, hp. 5.

CLAM SHELL BUCKETS

280 1 Williams Clam Shell Bucket No. 1506, size 2 yd.
284 1 Williams Clam Shell Bucket, size 3 yd.

GROUT MACHINES

290 3 Horizontal Gear Type Grout Machines, 20 in. x 36 in.
291 2 Upright Grout Machines, 20 in. x 24 in.

SHEET PILE-DRIVING HAMMERS

292 13 Sheet Pile-Driving Steam Hammers—
3 No. 5 Arnoth.
2 McKiernan-Terry Drill Co., 2½-in.
8 4-in. G Ingersoll-Rand.

STONE CRUSHERS

300 3 Reliance Stone Crushers.
301 1 Portable Champion Stone Crusher, with Item No. 275.

HOISTING JACKS

305 15 60-Ton Universal Jacks.
306 7 50-Ton A. G. Norton Jacks.
307 4 40-Ton Universal Jacks.
309 4 20-Ton Watson & Stillman Hydraulic Jacks.
310 10-Ton Track Jacks.

ROCK DRILLS

316 20 3½ McKiernan & Terry Drills.
317 3 F24 Ingersoll-Rand Drills.
318 Jap Drills—
11 B. C. R. 33 Rotating Japs.
20 Imperial I. R. Plug Japs.
4 Ingersoll-Rand Butterfly Japs, M. V. No. 1.
44 McKiernan "B. I." Japs.
12 McKiernan Style "A3" Japs.
319 2 Neumer Electric Rock Drills.

TRIPODS, COLUMNS AND COLUMN ARMS FOR DRILLS

321 28 Columns for Rock Drills. } For Columns and
322 45 Column Arms for Rock Drills. } Arms.
323 2 Quarry Bars, 4 , with 2 saddles on each mounted on legs.

CHAIN HOIST BLOCKS

330 1 Steam Hoisting Block, made by Ingersoll-Rand Co., cap. 7,000 lb.
331 13 Triplex Chain Hoist Blocks, 2-ton.

Continued Next Week

Space permits the listing of only a few of the hundreds of items. Those enumerated above, however, will give you an idea of the completeness of the assortment. Watch this space next week for the continuation.

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One Madison Avenue
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100 tons 80 lb.
300 tons 68 lb.
650 tons 58 lb.
500 tons 56 lb.
800 tons 52 lb.
600 tons 40 lb.
400 tons 35 lb.
500 tons 30 lb.
250 tons 25 lb.
300 tons 20 lb.
100 tons 16 lb.
400 tons 6 in., 60 lb. Shanghai

Also Any Section New or Relay

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10—36 ft. 50,000 Capacity Box, can convert to flats
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10—35 ft. 80,000 Capacity Steel Truck Flats
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FOR IMMEDIATE DELIVERY

STEEL SHEET PILING

355 pieces 7 ft. Lack. 7 x ½ in.
360 pieces 10 to 15 ft. Lack. 12½ x ⅜
310 pieces 12 to 16 ft. Wemlinger 12 in.
200 pieces 14 ft. Lack. 7 x ½ in.
200 pieces 15 to 20 ft. Wemlinger 12 in.
775 pieces 15 to 20 ft. Lack. 12½ x ⅜
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250 pieces 20 ft. U. S. 9 x ⅜ in.
256 pieces 20 ft. Lack. 7 x ½ in.
450 pieces 20 ft. U. S. 12½ x ⅜ in.
100 pieces 22 ft. U. S. 12½ x 4 in.
400 pieces 22 ft. Lack. 7 x ½ in.
215 pieces 22 to 25 ft. Lack. 12½ x ⅜ in.
150 pieces 25 ft. U. S. 12 x ½ in.
70 pieces 25 to 30 ft. U. S. 12½ x ⅜ in.
250 pieces 25 to 30 ft. Lack. 12½ x ⅜ in.
84 pieces 32 ft. U. S. 12 x⅜ in.
55 pieces 32 to 35 ft. U. S. 12½ x ⅜ in.
250 pieces 32 to 35 ft. Lack. 12½ x ⅜ in.
75 pieces 35 to 40 ft. Lack. 12½ x ⅜ in.
190 pieces 35 to 40 ft. U. S. 12½ x ⅜ in.
65 pieces 38 ft. Lack. 14-in. Arched Web
185 pieces 40 to 45 ft. U. S. 12½ x ⅜ in.
80 pieces 45 ft. Lack. 14-in. Arched Web
450 pieces 65 ft. Lack. 14-in. Arched Web

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Cars, Locos., Machinery, Equipment. Everything for Railroad or Contractor.

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Air Compressors	Fire Extinguishers
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Cars	Jacks
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Electric Heaters	Spiral Pipe
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Resident Engineer, Astoria Light, Heat and Power Co.
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In Stock—Ready for Delivery

1—100 H.P. "Ames" locomotive.
1—100 H.P. "Ames" Empire.
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LOCOMOTIVES

Narrow and Standard Gauge for every service, rebuilt, immediate delivery. Locomotive cranes, steam shovels, cars, etc.

Southern Iron & Equipment Company,
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FOR SALE

LOCOMOTIVE

3-cylinder Ineline Geared Locomotive built by Lima Machine Works, Lima, Ohio, 1890. No. 277, about 50 H.P., 28 tons, good for 160 lbs. steam pressure, used not more than 1,000 miles.

Mt. Penn Gravity R. R. Co., Reading, Pa.

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ENGINES

1—No. 58 Lidgerwood Shaft engine
1—Lidgerwood 10½ x 14 Drag Line Excavator with 8¼ x 10 Lidgerwood swinger for same
1—Ingersoll-Rand 1,650 ft. Compressor
1—25 H.P. Advance Traction Engine
2—800 H.P. Feed Water Heaters
1—Warren-Webster 20 in. Oil Separator
10—Electric Motors, 5—50 H.P.; 8,000 ft.—1½ in., 1 in., ⅞ in., ¾ in., ⅝ in. Steel and Iron Rope
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100 pieces Lackawanna 10 in. x 10 ft. Sheet Piling
Wrought Pipe from ½ to 20 in.

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We carry a large stock of all sizes, furnished with perfect threads and couplings, sizes ¾ in. to 24 in.

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PIPE SECOND HAND

With new threads and couplings; also cut to sketch.

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Large Stock—Prompt Shipments.
Send us your inquiries.

EAGLE PIPE SUPPLY CO., Inc.,
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TWO RAILROAD CRANES

one fifteen ton and one twenty ton.
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Two 10-ton Austin Gasoline

MACADAM ROLLERS

for sale. Used but little. Low price. Write

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Large Contractor's Plant

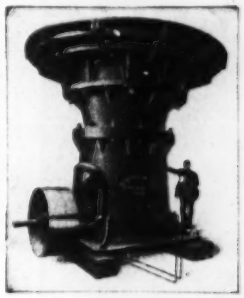
consisting of Boilers, Cars, 36 in. gauge Locomotives, Derricks, Hoisting Engines, Jacks, Concrete Mixers, Pumps, Pipe, Small Tools, etc.

List gladly furnished upon request.

Austin Gyratory Crushers

MADE IN NINE SIZES

50 to 5,000 TONS PER DAY



Plans and specifications submitted and expert advice free on any problems involving rock-crushing or earth handling.

AUSTIN MANUFACTURING CO., Chicago

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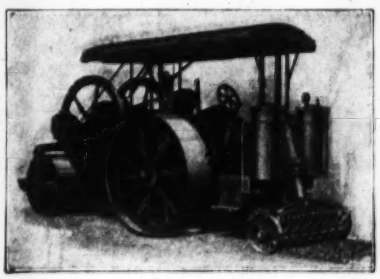
We Manufacture:—Road and Elevating Graders, Scarifiers, Road Rollers, Quarry Cars, Dump Wagons Stone Spreaders and Street Cleaning Machinery, Road Oilers.

THE LATEST THING IN ROAD SCARIFIERS



The Austin Motor (Kerosene) Roller has received a further enhancement to its high value as a road builder

The Austin Pneumatic Scarifier Attachment

For general maintenance work, no greater labor saving device has ever been placed on a road roller. The Austin scarifier utilizes the weight and power of the roller to tear up old road surfaces in the most approved manner. The engine power is used for every movement, the teeth or tynes being pulled direct from the roller main frame, while the device is raised and lowered, quickly and simply, by compressed air supplied to the scarifier cylinder from the tanks on either side of same. The air is compressed by a two-cylinder compressor mounted above the engine cylinder and operated from the engine crank shaft.

Important Features

The operator can control every movement from his position at the roller steering wheel.

The scarifier does not interfere with the regular working parts of the roller.

It can be attached to any standard Austin 10-ton or larger roller.

Every part is accessible; nothing out of reach or out of sight.

The users of this scarifier attachment have indorsed it as a *perfect machine for the purpose*.

Write for our new scarifier circular.

The Austin-Western Road Machinery Co. - Chicago

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If so, write us. Any information we have is at your service.

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and we might add insured — of the most efficient equipment obtainable.

For instance we handle

Foote Mixers

The mixers used on 75% of all paving work — Because of their simple yet extra strong construction, easy drive and operation, and their speedy, thorough mixing of the batch.

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Only reliable products can be continuously advertised

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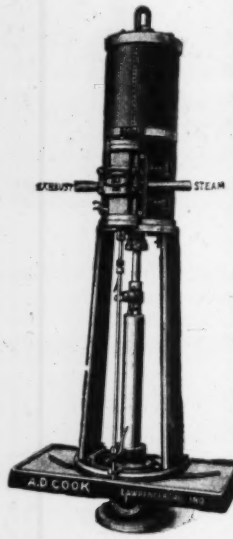
Manufacturer of

Steam and Power **Deep Well Pumps,** Single and Double Stroke; Cook's Patent Brass Tube Well Strainers; Deep Well Cylinders; Sucker Rods and Well Tools.

Deep Well Pumping Systems installed complete.



Cook Patent Vertical Deep Well Pumping Engine. "Steam Head."

Write for Catalog No. 12-G

Cook Patent Brass Tube Well Strainer

Cook Deep Well Products have always been manufactured by A. D. Cook, Lawrenceburg, Ind., The Cook Well Company of St. Louis, Mo., a selling organization, has retired from active business and has transferred its good will and records to A. D. Cook and in the future the customers of the Cook Well Company will receive direct service upon Cook Deep Well Products by writing to A. D. Cook, Lawrenceburg, Ind.

Does the Work of Four Laborers

The Junior Trench Pump will lift water containing sand, gravel or sewerage. Can be operated for 7 hours on 1 gallon of gasoline with a capacity of 3,500 gallons per hour. Built for hard service. Any diaphragm pump can be fitted to the outfit.

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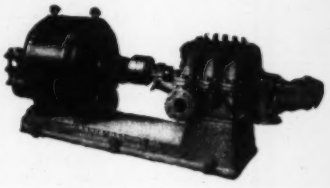

4" three stage Boiler Feed Pump direct connected to steam turbine.

Lawrence multi-stage turbine driven pumps are foremost for high pressure boiler feed service.

The American Woolen Co. recently installed two of these outfits having a feeding capacity of 18,000 and 20,000 boiler horsepower respectively.

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Our line is complete and your needs will be served promptly. Write us your requirements.

Morris Machine Works, Baldwinsville, N. Y.
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Foster Superheaters

Increase capacity of boilers, give more power with less fuel, and prevent all loss and trouble due to wet steam.

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THE STREAM IS CONTINUOUS

The economy of the Nye New Model High Pressure Pump is based upon its unfailing ability to continually discharge a great amount of solids—at a higher elevation than any other pump on the market. Pumps water, sewage, coal, sand, hair and crushed rock or malt. **Send for Catalog No. 14.**

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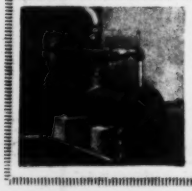
COMBUSTION ENGINEERS

DESIGNERS AND BUILDERS OF

COMPLETE GAS PLANTS — GAS BENCHES
LIME BURNING PLANTS — GAS PRODUCERS
SPECIAL INDUSTRIAL FURNACES



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As **18-K** is to the Jeweler

The mark **DARLING** is to the Valve User The **BEST**

THE DARLING PUMP & MFG. COMPANY, Lim.
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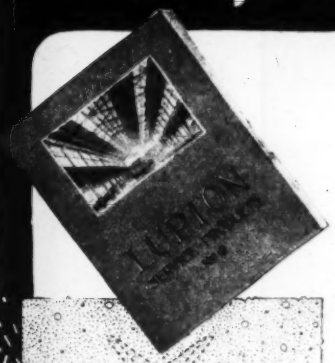
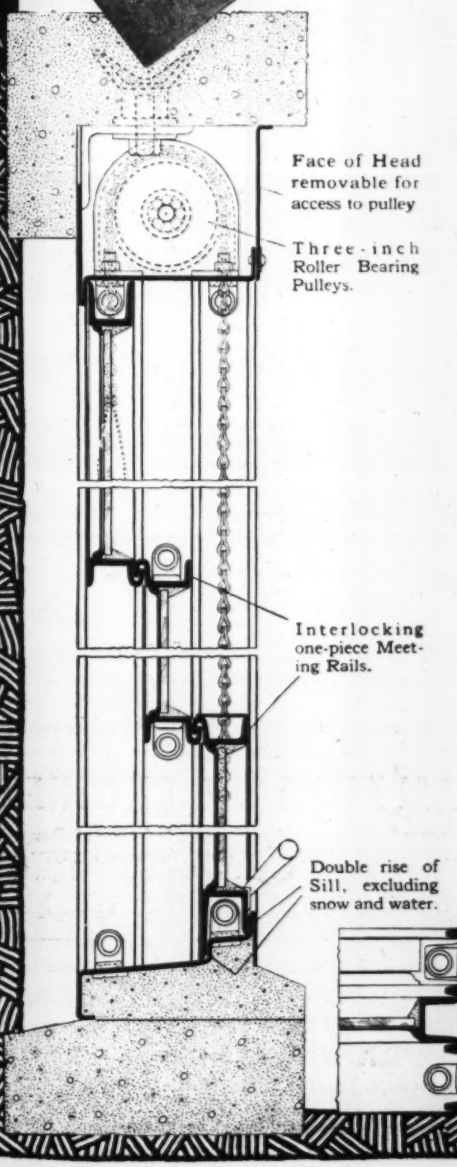
LOOK FOR THESE FEATURES
when you next order side wall sash



They embody the very latest ideas for mill, loft and factory requirements. Every one of them helps toward better weather exclusion or cheaper maintenance.

And remember that Lupton welding doesn't mean a dab here and there—it means complete fusion into a permanently rigid unit.


Face of Head removable for access to pulley
Three-inch Roller Bearing Pulleys.
Interlocking one-piece Meeting Rails.
Double rise of Sill, excluding snow and water.
One-piece rolled steel Jambs and Mullions
Solid one-piece Members, extra heavy, with oxy-acetylene welded joints.

LUPTON STEEL SASH
COUNTERBALANCED TYPE

is distinguished by the use of the specially rolled and welded sash members, and the one-piece head and sill here shown. No riveted-on weathering members are used; even the meeting rails are specially rolled. The double offset in sill is another exclusive Lupton feature.

Owing to the simultaneous movement of the upper and lower sash in opposite directions, equal top and bottom ventilation is assured. Hence this type of sash is especially desirable for multi-story buildings with side wall ventilation.

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Philadelphia, Penna.

Our new Catalogue, No. 9, gives full particulars of this and other Lupton Products.

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Pivoted Factory Type
Counterbalanced Type for factories
Counterweighted Type for offices
Power House Type
Pond Continuous Sash for Pond Truss, saw-tooths, monitors and side walls
Pond Operating Device for long lines of sash
Lupton Steel Skylight
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A Centrifugal Pump for an Emergency

We have a brand new 14 in. horizontal bronze fitted split casing centrifugal pump direct connected to a 40 HP. 2,300 V., 60 cy., 3 ph. cage type motor complete with starter which will pump

3,000 g.p.m. against 34 ft. hd.
4,000 g.p.m. against 30 ft. hd.
5,000 g.p.m. against 24 ft. hd.
5,500 g.p.m. against 20 ft. hd.

This unit can be used for drainage, irrigation, general water supply and similar pumping requirements and

CAN BE SHIPPED IN TWO DAYS

Price $1,800.00 F.O.B. Works

Allis-Chalmers Mfg. Company
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Gas Is the Ideal Fuel

Much better results are accomplished and large money savings can be made if you specify gas as fuel for the mechanical and heat treating departments of your new plant or extension.

Consult us on any heating, carbonizing and hardening process.

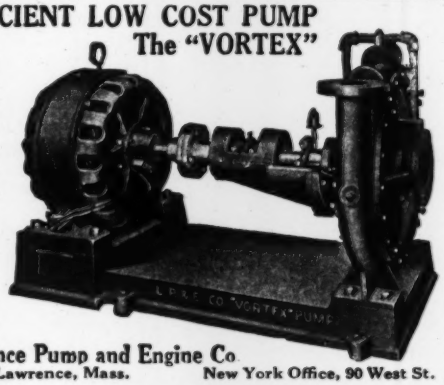
Our complete line of gas fired furnaces is unsurpassed. Let us tell you more about them. Write.

American Gas Furnace Co.
Gas Engineers and Manufacturers
24 John Street - - New York

AN EFFICIENT LOW COST PUMP
The "VORTEX"

This 3-inch "Vortex" Pump with 15 H. P. Motor has a capacity of 250 gallons per minute and is built for any head up to 125 feet. Bearing surfaces are ample for permanent alignment. Absolutely no end thrust of shaft. No thrust bearings.

Get our Catalog showing the "Vortex" line of pumps



The Lawrence Pump and Engine Co
P O Box 70, Lawrence, Mass. **New York Office, 90 West St.**

Drive Your Generator With a Samson Turbine

You can save money if you will use a Samson to drive your generator because the Samson attains a quicker speed than any other turbine operating under the same conditions. This allows the use of lighter and consequently lower priced transmission machinery.

Samson Turbines use the water economically; the speed is quick and steady; they develop great power. Write us today.

James Leffel & Co.
302 Lagonda St. Springfield, Ohio
New England Office:—L. B. Dow, Inc., 136 Federal Street, Boston, Mass.
Write for Bulletin 54

DE LAVAL

STEAM TURBINE CO.
TRENTON, N. J.

Builders of TURBINE MACHINERY, including Steam Turbines of all capacities for high or low-pressure steam and for direct connection or for belt or rope drive. Complete Turbo-Generator Sets. Centrifugal Pumps for all Heads and Capacities. Centrifugal Blowers and Air Compressors. Double Helical Speed Reducing Gears.

Write for special bulletins on apparatus in which you are interested.

THE JOHN H. McGOWAN CO.

BUILDERS

McG **PUMPING MACHINERY** McG

IN ALL TYPES FOR ALL USES

CINCINNATI **OHIO**

ROOT

Spiral Riveted Pipe—
Pipe Specialists for 48 years.
Abendroth & Root Mfg. Co.
Works: Newburgh, N. Y.
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STEAM PUMPING ENGINES

We are prepared to build the most advanced type of **Pumping Engine** of either the crank and fly-wheel or direct acting type, for **Water Works, Mines** or **Irrigation;** and centrifugal where adaptable.

R. D. WOOD & CO., 400 Chestnut St., Philadelphia

Edson Diaphragm Pumps

Operated by Man or Gasoline Power

will handle Sand, Mud, Gravel, Sanitary Deposits and anything limpid enough to flow, without clogging or injury. *Send for Descriptive Catalogue.*

Edson Manufacturing Company
Established 1859 **278 Atlantic Avenue, Boston, Mass.**

STRUTHERS-WELLS COMPANY

WARREN, PENNA.

Riveted and Welded Steel Plate Construction

New York Office: 50 Church Street
See our illustrated ad—in first issue of each month

Insley Steel Towers

IN order to be a good investment, your Plant Equipment should have qualities of permanence.

The Insley Steel Tower for use in connection with Concrete Gravity Plants is

A Permanent Piece of Equipment

Easily erected—
Easily dismantled—
Rigid as of alignment—
Adjustable as to height—
100 per cent. Salvage Value.—

Eighty foot Insley SteelTower,Curtiss Bay Distilling Company's Plant. C. Curtiss Woodruff & Co., Baltimore,Contractors.

Insley Manufacturing Co.
Engineers—Manufacturers - - INDIANAPOLIS

Ask for Catalog No. 41

Home Made—But a Winner!

How a Westinghouse 10½-Inch Cross Compound Compressor Won a Contract

Three New York City contractors were hurriedly called to bid on a rush job requiring air tools. None of them had an air outfit, and the earliest delivery obtainable was four weeks on a $2,500 outfit, consisting of boiler, compressor, tank and truck. One contractor, more resourceful than the others, telephoned our local representative, and in less than 48 hours a compressor and tank were on the ground. These were mounted on an old mule wagon in jig time, anchored, and coupled by a pipe to a neighboring steam roller. Inside of 60 hours this home-made outfit, costing less than $500, was busy on the job which netted the resourceful contractor $3,800 in two weeks.

Call us when you get in a tight place. Call any time—All times.

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Westinghouse Building
CHICAGO:
Railway Exchange Building

Westinghouse Traction Brake Company
General Offices: Wilmerding, Pa.

NEW YORK:
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85 LIBERTY STREET, NEW YORK

BABCOCK & WILCOX—STIRLING—RUST

WATER TUBE STEAM BOILERS

STEAM SUPERHEATERS
Works: BAYONNE, N. J.

MECHANICAL STOKERS
BARBERTON, OHIO

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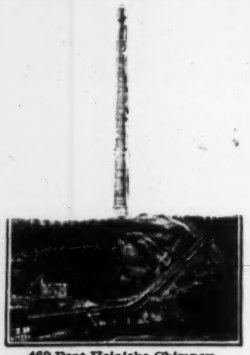

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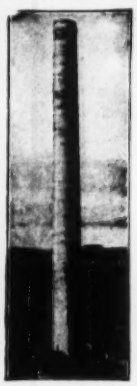

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Outwears rubber hose 10 to 1—as flexible but 30% lighter.
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Welded Wrought Iron Pipe, Lined and Covered with Pure Cement and Having Lead Caulked Bell and Spigot Joints
The only noncorrosive pipe on the market good for any pressure

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give complete satisfaction to their owners. Built of even hard burned radial brick moulded with corrugated sides that add 62½% to the strength of the mortar joint. **Write us now for Bulletin No. 60.**
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for jointing water mains is due to the fact that it does four times the work of lead at about half the cost, makes a joint that eliminates the possibility of leakage, and can be installed by common labor, since it needs no caulking.

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Wood Stave Pipes Have Low Construction Costs

Built at the job—save freight and handling charges.

Joints need no expensive caulking.
Pipe easily tapped.

Our engineering department is at your service to help solve your hydraulic problem.

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Manufacturers of Machine Wire-Wound and Continuous Stave Wood Pipe.

The Accumulated Skill and Experience of 25 Years

In selecting and seasoning Redwood and Douglas Fir and in manufacturing **wood tanks** and **continuous stave and machine-banded wood pipe,** goes into both Pacific Tanks and Pipes. The result—added value to you. May we not go into full details? Write.

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ESTABLISHED 1890
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It Carries More Water for Its Diameter Than Any Iron Pipe

WYCKOFF WOOD PIPE is not impaired by the effects of electrolysis acid fumes or corrosion.
It is light, strong and very durable. Lengths, 6 ft. to 12 ft. long.
Size for size, it carries 14% more water than iron pipe.
Costs less for transportation because it is lighter and easier to handle.

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A lasting coating is assured

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The coating is therefore more perfect and lasting than could be obtained by the cheaper cold methods—

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SHOES FOR ANY SIZE WOOD PIPE TO WITHSTAND ANY PRESSURE

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of interest are contained in the Washington P. & F. Co.'s book. The knowledge of experts has gone into it—men who have a means of solving the piping difficulty that perchance now confronts you.

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Portland is the Perfect Pipe

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We Satisfy Our Customers

in delivery, material, and workmanship on penstocks, tanks, smoke-stacks, draft tubes, and all kinds of plate and structural steel.

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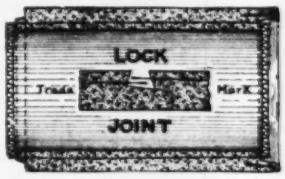
72-in. pipe laid for Paerdegat Basin Relief Sewer, Brooklyn, N. Y.



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Now they say,
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Consider the practical features that make the Meriwether System of Lock Joint Pipe ideal for sewer work.

Pipe made at the job by local labor, of local material when possible. Every foot inspected before being lowered in trench. And finally, there's the **joint**—doubly reinforced for strength—smooth, and absolutely watertight. The success of Lock Joint Pipe is splendidly illustrated in our 100-page Bulletin. Send for it today. No obligation incurred.

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Say Chief, this—rubber hose is rotten. It just busted again and Pete got a nasty burn.
Give us hose that will last and we'll make a showing on the job.

DELAYS COST MONEY

Profits depend on speed; interruptions eat earnings; leaks waste dollars.
Steady, speedy work requires steadfast

AMERICAN METAL HOSE

Hose that *can't* burn or rot; resists intense heat without wear or aging; pits cold steel and phospher bronze against the chemical action that quickly destroys rubber.

Yet AMERICAN is flexible as rubber hose, for all its greater strength and safeness. You're interested in its *economy*, too.

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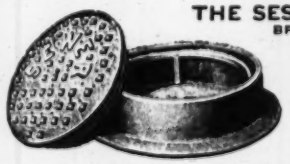

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A tool that saves time and money on nut work.

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Long Life. **Lasting Accuracy.** **All parts interchangeable.** **Maintenance cost nominal.**

Their merits have made meter systems popular.

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ONE MODEL ONLY.

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Current Velocity Measurement

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assures you of accurate and dependable results under all conditions.

New Setback Velocity Register Saves Computation

Full details and catalog on request.

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eliminate uncertainty in the measurement of cold and hot water, brine, sewage, oil, gas, air, steam and other fluids.

Accurate, simple and practical. Easy to read. Furnish a permanent record of the variations in the daily output.

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All Sizes
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Every locomotive must have Reliability, Efficiency and Durability.

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FREIGHT and PASSENGER
CARS
OF EVERY DESCRIPTION

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Rock and Hammer Drill Bits and Shanks made by hammering in the Sullivan Sharpener, cut faster, wear slower. **Bulletin 472.**

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OUR latest development of the M. B. C. Coupler, a modification of our popular Pitt and Janney "X" Couplers, with latest improvements. **"Lock-to-the-Lock," "Lock-Set" and "Knuckle-Opener." Send for blueprints and prices.**

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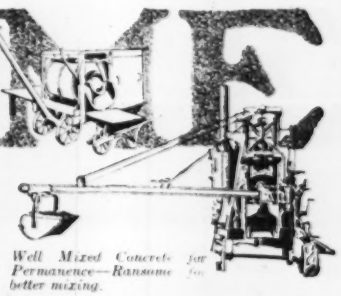

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For Power-House and every service. Electric and hand-power. Clearance diagrams and other information for initial layouts gladly furnished to engineers on request. Send for catalog.

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Complete Foundry Plants — WHITING FOUNDRY EQUIPMENT CO. HARVEY-ILL. U.S.A. CHICAGO SUBURB — Cranes of All Kinds

CAREY Elastite EXPANSION JOINT

The original and only Elastite Joint.

One Process Instead of Seven

The old way of making an expansion joint involved:

1—Placing the spacing strips.
2—Coming back and removing strips after grouting is finished.
3—Hauling tar kettle and barrels of tar to the job.
4—Melting the tar or pitch or asphalt.
5—Pouring the melted filler.
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7—Removing the kettle and hauling away the old strips.

The new way consists of one process only—laying the strips as they are delivered to the job direct from our factory. And when you are done *you are done.*

Interested? Write for sample.

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BACON \ FARREL
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CRUSHING \ WORLD KNOWN
ROLLS-CRUSHERS
EARLE C. BACON, ENGINEER
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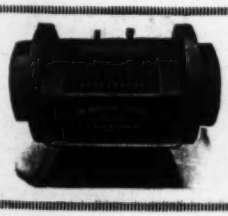
HAINS { **Gravity Batch Concrete Mixers and Controllable Discharge Bottom Dump Buckets**

Knowing the whole story about them now may save you dollars later.
AUTOMATIC CONCRETE MIXER CO., Inc.
429 Kinsley Avenue — *Sole Makers and Distributors* — Providence, R. I



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CRUSHING ROLLS—MAGNETIC SEPARATORS
Crushing Plants complete in all details from 100 to 5,000 tons daily capacity.
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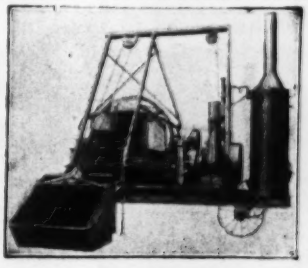
Improved Cube Concrete Mixers

Made the World's Best Records on the Panama Canal and Los Angeles Aqueduct. Built in 10 sizes, 2½ to 64 cu. ft. capacity. **Special Machines for Road and Street Paving.**



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Our Mixer Capacities Based on N.A.M.M. Wet Batch Rating.

Send for Catalogue No. 2.

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Main Office: Railway Exchange, Chicago
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Agents wanted in open territory

On the Storm King Road the "Jackhamers" are operated by an "Imperial" Type XB Power-Driven Compressor. The air line is 2½ miles in length.

Trade Mark **"JACKHAMERS"** Reg. U. S. Pat Off.

Are Drilling the Storm King Road

The John L. Hayes Const. Co. is building a 5-mile N. Y. State Highway on the sides of Storm King and Crow Nest Mountains. The rock is a hard bastard granite, partly solid and partly boulders up to 250 yards in size.

There are 12 "Jackhamers" plugging away, excavating in places where it is barely possible for a man to stand. At times ropes and canvas slings are the drill runners sole support.

Road contractors, whether their work calls for a mountainside cut or for simple trench digging, find the reliable "Jackhamer" an unequaled drill for all around, day in and day out service.

For operating these drills the Company's Portable Compressors offer complete, ready for work units with a choice of gasoline or electric motor or steam engine drive.

Bulletin 4221 describes the "Jackhamer"

Bulletin 3015 describes I-R Portable Compressors.

A postal request will bring both to you.

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11 Broadway New York — **Offices the World Over.** — **165 Q. Victoria St. London**

HUMMER
Self-Rotating
HAMMER DRILLS

for

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1039 Fisher Bldg., Chicago — Branches Everywhere — **52 Vanderbilt Ave., New York City**

KEYSTONE CABLE DRILLS

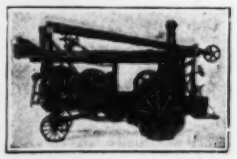
for Big Blast Holes
Water Wells
Oil and Gas Wells
Mineral Prospecting.

Ask for Drill Catalog.

DOWNIE DEEP WELL PUMPS

Direct Steam Driven, Belted or Geared from Motor

for Heavy Service in elevating large quantities of water from deep artesian wells. Catalog 6.



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Beaver Falls, Pa.

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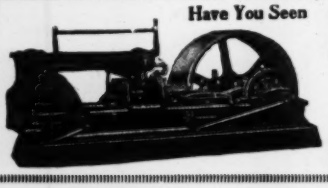

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The Norwalk Motor-Driven Compressor?

Full Load, Part Load, No Load, according to demand.

Don't be satisfied with the "as good" kind. Get "IT!"

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WIRE ROPE

of Standard and Armored Construction. Manila and Sisal Cordage. Fibreclad Wire Rope. We make Ropes for every purpose. **Write for prices.**

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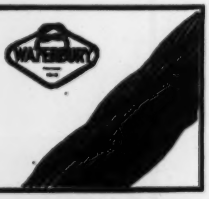

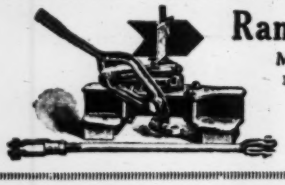

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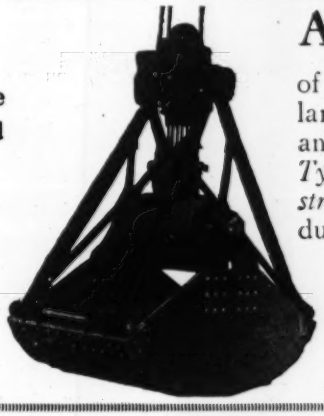
Switch Stands, Plantation Cars, Switches, Frogs, Etc.

OHIO
LOCOMOTIVE CRANES

OHIO LOCOMOTIVE CRANE CO.

MANSFIELD ST. BUCYRUS, OHIO

Improvements in this bucket Greatly increase the Strength and General Operating Efficiency As well as Prolong its Life of Useful Service



A Perfectly Lubricated Bucket

of reinforced steel construction, having exceptionally large bearings which are fully protected from dirt and grit at all times. This briefly describes the *new Type "L" Owen Bucket.* A bucket of *increased strength* without extra weight, *increased digging power* due to absence of friction, and a *longer life of useful service at a very low cost of maintenance.*

Every contractor and engineer will be interested in the new Bulletin No. 5 which gives information in detail. Write today

The Owen Bucket Co
533-535 Rockfeller Bldg., Cleveland, Ohio

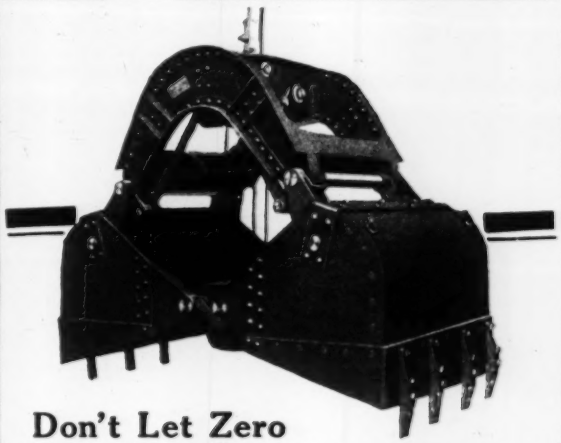
You Will Do Better With An

OSGOOD

The OSGOOD "18" ¾ yard, traction, revolving steam shovel is designed and built for the lighter class contracting, such as road grading, cellar excavating, sewer trenching, stripping, loading and unloading cars, and in fact, the general line of excavating contracting. The boom raising and lowering device, which can be quickly and easily installed on any standard shovel, enables the operator to dig sewer trenches to a great depth. By attaching a long structural steel boom, in place of the heavy armored boom, the OSGOOD "18" will handle a clam shell bucket or do crane service efficiently.

Steam Shovels—all sizes, Deep Water and Ditching Dredges.

THE OSGOOD COMPANY, MARION, OHIO
Eastern Office, 51 State St., Albany, N. Y.



Don't Let Zero Weather Stop Your Digging

Use the bucket that's built to stand the stresses of digging in frozen material, the bucket you can't overload; the "bucket that's built with an arch"—the

Buffalo Bucket

Many contractors are blessing the sturdy arch construction in this bucket which stands between them and slow digging.

Ask us for details.

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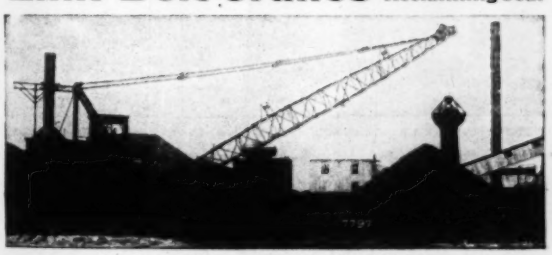
133 Erie Street, Buffalo, N. Y.
New York Office, Room 426—30 Church St., C. E. Forsythe, Mgr.

Link-Belt Cranes for Storing and Reclaiming Coal



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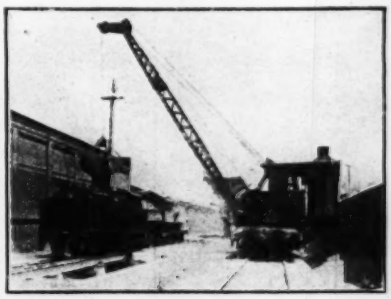
LINK-BELT COMPANY, PHILADELPHIA CHICAGO INDIANAPOLIS

—In difficult work the—

O. S. Locomotive Cranes and Buckets

Insure satisfaction.



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A complete line of Contractors' Standard Hoists.

Illustration represents improved Bridge Erecting Engine with six Independent Winch Heads.

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96 Liberty St., New York

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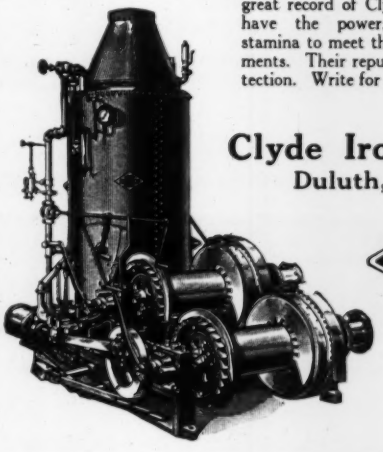
Speed
Strength
Capacity

Can You Tell a Good Hoist?

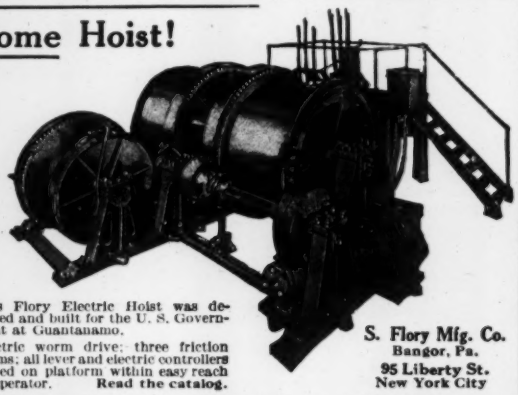
Can you distinguish a good hoist from one not so good by looking at them? Of course you can't! And the chances are you don't even think you can. The thing that determines the quality of a hoist is what it will do and how long it will do it. So when you buy a hoist you judge its merit by the performance of others like it in actual use. That is why you can best serve your own interests by investigating the great record of Clyde Hoists. They have the power, durability and stamina to meet the severest requirements. Their reputation is your protection. Write for details.



Clyde Iron Works
Duluth, Minn.

CLYDE

Some Hoist!



This Flory Electric Hoist was designed and built for the U. S. Government at Guantanamo.

Electric worm drive; three friction drums; all lever and electric controllers placed on platform within easy reach of operator. **Read the catalog.**

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A Lighter, Simpler, Cheaper Locomotive Crane

The John F. Byers Machine Co.
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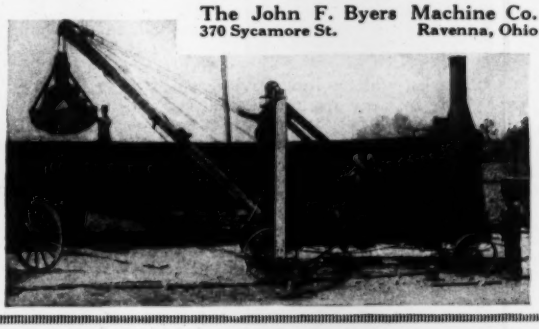

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INDUSTRIAL WORKS CRANES

Successfully take the Hard Knocks

Catalog 108 shows many photographs of our different machines erecting bridges and buildings and handling material.

Better write for this book now.

INDUSTRIAL WORKS, Bay City, Mich.

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Cranes and Hoists

Locomotive cranes, buckets, dragline excavators, crabs, winches, and concrete reinforcement. *Write for catalogs.*

The Brown Hoisting Machinery Co.
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THEW Full Circle Swing Steam, Gasoline and Electric Shovels

Various types for every class of excavation. Watch for detailed advertisements in this journal. **Write for Circular 26-K.**

The Thew Automatic Shovel Co., Lorain, O.

Blaw Buckets

Built to Dig and Last while Digging

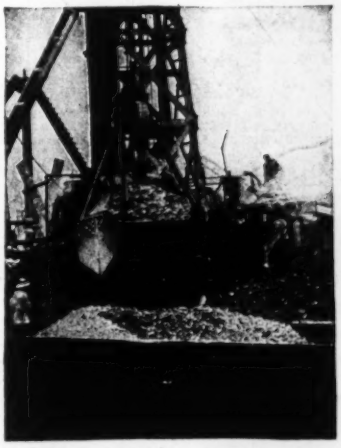
Here's a Blaw Standard 2 yard Type C Bucket with manganese lips fitted for special work. It has one closing line and two holding lines on an Equalizer Bar attached to the top of the bucket. The Equalizer Bar distributes the load equally on both hold lines and absolutely prevents the bucket from swinging around.

Blaw Buckets not only cover all the contractor's digging requirements, but we build buckets for handling ore, coal, sewer digging, excavating, foundation work, dredging, sand and gravel mining, embankment work, loose rock handling, sand handling, and the handling of all bulk materials.

Write for Blaw Bucket Literature—today.

Blaw Steel Construction Company
601 Farmers Bank Bldg. - Pittsburgh, Pa.

And, Especially on Big Concrete Jobs



Williams Buckets

have proved to be tremendous cost reducers.

In handling sand, gravel and all sizes of trap rock these remarkable buckets have no superior. They dig deeply into the hardest packed material and swing up with their full rated capacity between the powerful jaws.

Our bucket engineers are always glad to assist contractors in solving difficult bucket problems. Let them advise you.

Write for catalog today.

The G. H. Williams Co., Erie, Pa.

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BUCKETS

300 to 500 CARS OF YELLOW PINE Always in Transit

Write or wire—Service our motto. Prices always low. Let us quote on your requirements. We'll save you money on yellow pine, fir or redwood. Distributing yards, Cincinnati, Ohio.

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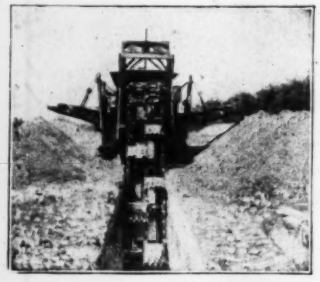
Austin Trenching Machines



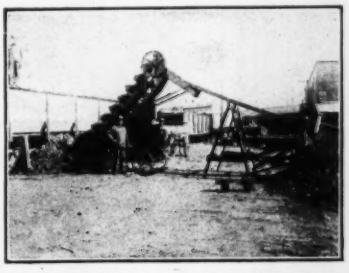
Insure low yardage cost on all kinds of trench excavation. Dig both wide and narrow sizes on same job and are easily adjustable; produce finished trench in single continuous operation; handle the stickiest soil without difficulty owing to selfcleaning buckets; equipped with multipedal traction.

The City of Chicago believes in Austin Trenching Machines—it has purchased **three** of them.

Write us for Catalog No. 102-A with full particulars.

F. C. Austin Drainage Excavator Co.
Railway Exchange, Chicago

The Haiss Wagon Loader on the Road Contract



The arrangement illustrated should interest the contractor as to the possibilities of the Haiss Digging Wagon Loader on Road Work.

He probably knows that the Haiss is capable of effecting a saving of 10 cents a yard on the handling of crushed stone, sand, gravel, etc. Its convenience is another of its many advantages. **Read the full story in the booklet. We will send you a copy. Write.**

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ESTABLISHED 1844

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Plans, Estimates, Construction
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Waterproofing Materials and Protective Paints of proven dependability. **Send for the Bulletins.**

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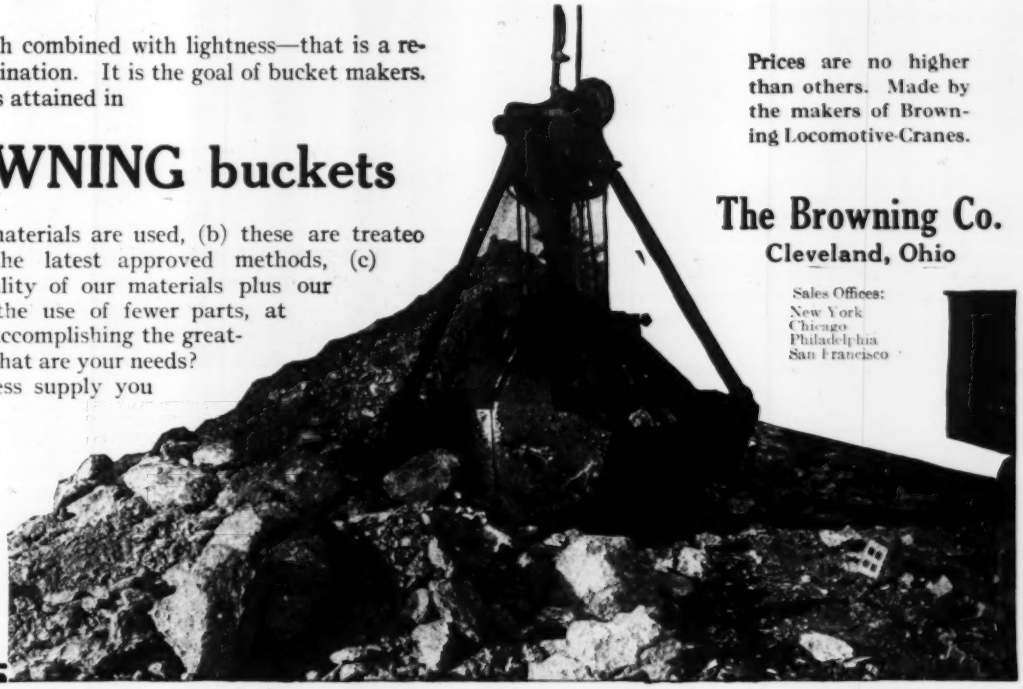
Any Size Any Style BUCKETS *Immediate Delivery*

Rugged strength combined with lightness—that is a remarkable combination. It is the goal of bucket makers. This is how it is attained in

BROWNING buckets

(a) the *finest* materials are used, (b) these are treated according to the latest approved methods, (c) the higher quality of our materials plus our design allows the use of fewer parts, at the same time accomplishing the greatest strength. What are your needs? We can doubtless supply you from stock.



Prices are no higher than others. Made by the makers of Browning Locomotive Cranes.

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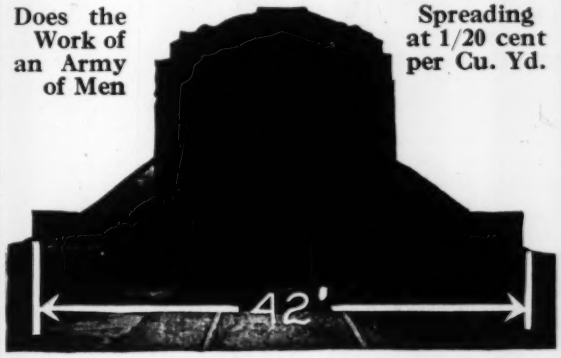
Does the Work of an Army of Men

Spreading at 1/20 cent per Cu. Yd.



The JORDAN SPREADER

42 feet from tip to tip is the reach of the wings of the Jordan Spreader.

Think of it. Working from one track you can spread fill for two additional tracks at once.

Or on large grading operations you can move the face out 21 feet each trip.

The Jordan cuts 20 in. below top of rail or 14½ in. above.

No wonder it so reduces costs of hand work. 1/20 of a cent per cubic yard is a very conservative figure. **Are you approaching this?**

Write for all particulars.

The O. F. Jordan Company
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THE wonderful increase in automobile travel means that more interest will be taken in *good roads*; and *that* means that more roads and better roads, will be built every year as highway and general contractors know.

BUILDING ROADS IS "MARION'S" LONG SUIT

Marion Shovels have great capacity, endurance, speed; ability to "get around" and "turn around" quickly. They are reasonable in first cost, operate at low expense, and require few repairs.

"Marion" Catalogs deal in *facts*—no obligation in asking for them. A card requesting Booklet A132 will bring prompt response.

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We Make Excavating Machinery of Every Description
Branches:
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Established 1884 **MARION, OHIO**
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ADDRESS ALL COMMUNICATIONS TO OFFICE GALVESTON TEXAS

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Cuts Wood Preserving Bills in Half

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1916 — Large or small lots shipped promptly.

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B. M. Co's Kyanized Timber Best for Building Construction
Best for Trestles, Ties, Flooring, Roofs, Bridges, Poles and General timbering work. Lasts a life-time without decay. Write for details.
BERLIN MILLS COMPANY
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Wood Preservers Since 1878.
CREOSOTED TIES, LUMBER AND PILES
Untreated Yellow Pine Lumber and Ties.
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Established 1881
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Creosoted: Railroad Ties, Bridge Timbers, Piles, Poles, Paving Blocks, Cross Arms, Lumber, WYCKOFF CONDUIT FOR UNDERGROUND WIRES; Also Wood Pipe and Steam Pipe Casings.

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PRESERVES WOOD EVERYWHERE

Simple methods—known costs—explained in new special circular—get it. Avenarius Carbolineum prevents decay of wood. Doubles life of timber. Costs 1/2 to 2c. per sq. ft.—$5 to $12 per 1,000 ft. B. M. Applied by brush, spray or open tank. 40 years' continuous service. Depots everywhere.

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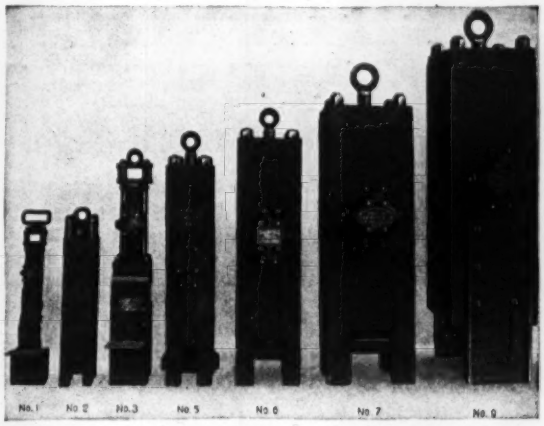
BRANCH OFFICES: 813 Prospect Ave., Cleveland; 348 James St., Montreal.



THE pile hammers shown in the above illustration will drive the lightest or the heaviest section of steel or wood sheet piling, or wood or concrete piles up to 18 inches square or round.

The high standard of excellence established by McKIERNAN-TERRY PILE HAMMERS is known to users the world over. Their reputation for consistent and economical work is the reason.

Before buying pile hammers for your next job, send for a copy of our new bulletin. Mailed to any address on request.

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234 Broadway, New York, N. Y.
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Rock Drills, Core Drills, Hammer Drills, Atlas Jacks.

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AETNA

Low-Freezing Standard Dynamites
(Low-Freezing Ammonia)

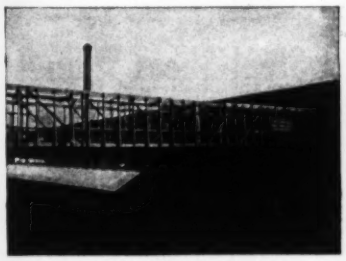
leave that pleasant "aft er taste" with you when used for your Blasting. They leave it with your pocket-book, too, by reason of their low cost, their great disruptive power and by the elimi nation of unnecessary thawing in cold temperatures.

Many of the largest consumers are now most satisfactorily using Aetna Low-Freezing Standard Dynamites (Low-Freezing Ammonia) in place of the more expensive Nitro-Glycerin and Gelatin Dynamites heretofore employed. You have an equal chance to make this gain.

Write to us direct, or to our nearest Branch Office, and let us give you more details of the advantages and saving in cost to be gained by using Aetna Low-Freezing Standard Dynamites.

AETNA EXPLOSIVES COMPANY
Incorporated
120 Broadway - - New York

A G. W. Carrier System Similar to this—



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BUSHINGS for HOISTING SHEAVES
excel all other types for durability under heavy loads, and hard service.
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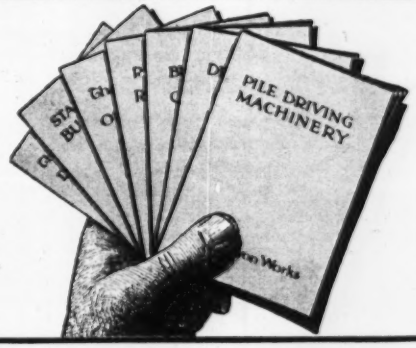

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"Union" Books devoted to Contractors' Equipment. Our Union consists of Pile Driving and Excavating Machinery, also Road Builders and Contractors' Equipment.

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Book No. 22—Standard Road Builders' Kettle
Book No. 25—Repair Kettle
Book No. 26—Unionlock Automatic Dump Buckets.

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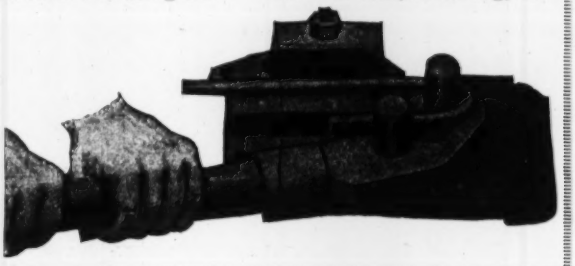

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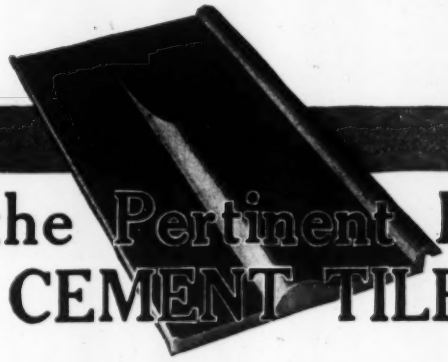

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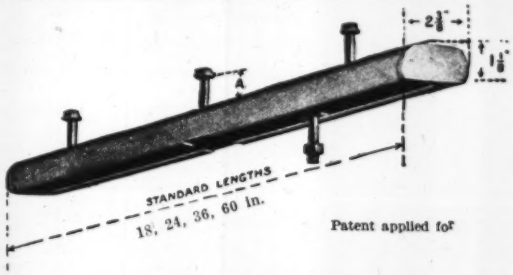

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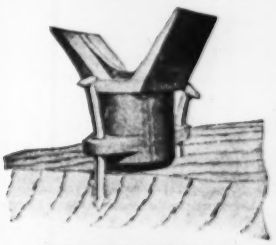

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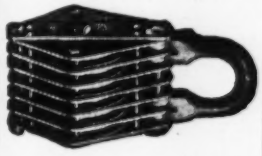

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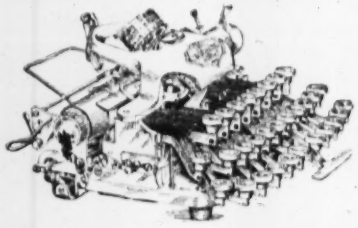

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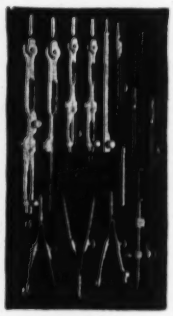

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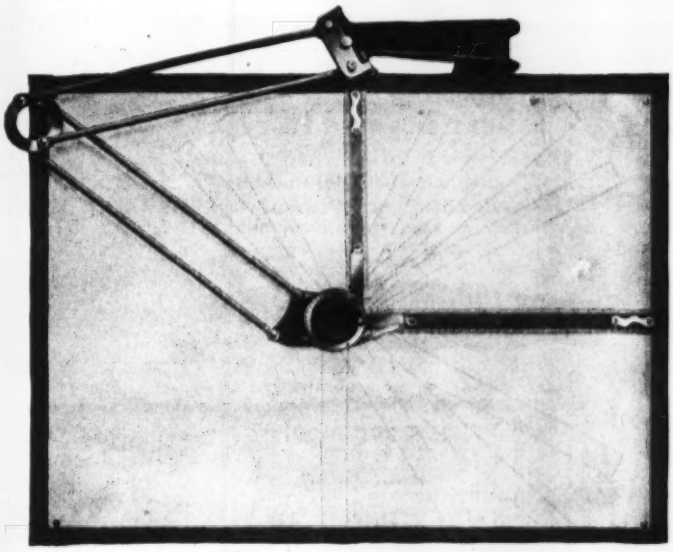

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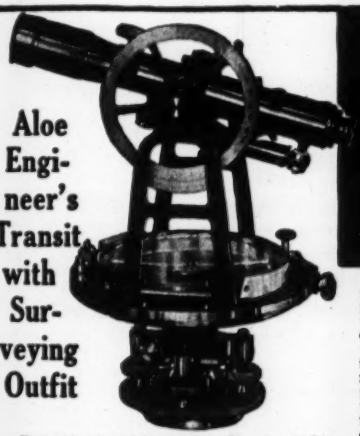

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Low cost for construction and small expense for operation are features wherein the Marion County Drainage Pumping Station excel all other drainage pumping plants of equal capacity in the Mississippi Valley.

The Marion County Drainage District is located a few miles above Hannibal, Mo., contains 4,000 acres of fertile soil and has a watershed of 6,500 acres. This district has one electrically-operated drainage pumping station: the designing of levees ditches and pumping station and superintendence of work being done by The Edmond T. Perkins Engineering Co. of Chicago and Quincy, Ill.

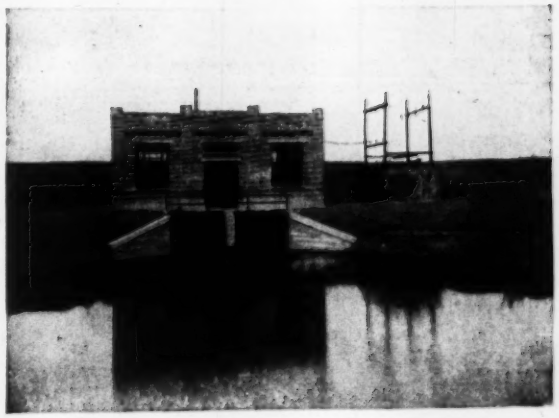
The pumping station contains two 30-in., Type W "American," solid shell, all iron, double suction centrifugal pumps driven through silent chains from two 100 H.P., 3-phase, 25-cycle, 440-volt, squirrel cage, General Electric motors running at 480 R.P.M. Pumps operate singly or in parallel, pumping against a static head ranging from zero to 14 ft., depending upon the stage of the river and the level of water in ditches within levee.

These pumps operate at two speeds, depending on the head. Speed is varied by changing the size of chain pinion on the motor shaft. For static heads from zero to about 10 ft. the smaller sprocket is used delivering respectively from about 25,000 to 15,000 G.P.M. When static head is from 10 to 14 ft., which rarely occurs, the larger sprocket for higher speed is used which maintains an equal range of capacity. In this way pump efficiencies range from a minimum of about 65% up to about 80%.

Exterior and interior views of this pumping plant are shown in the accompanying illustrations. The water passes from the suction bay through cast iron suction piping and Y's to the pumps and out to a fore-bay common to the two pumps and a part of the gravity culvert through the levee.

Electric current at 11,000 volts originating at Keokuk is transmitted across the Mississippi River from Illinois by a submarine cable and is stepped down outside the plant for operating power to 440 volts.

This is only an example of the economy of "American" Centrifugal Pumps in many drainage pumping plants throughout the Mississippi Valley.



Catalog 132 describes these pumps. Write today for your copy.

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Barrett Specification Roofs

Guaranteed for 20 Years

We Standardized the Roofs— Now We Standardize the Guarantee!

A DOZEN years ago the introduction of The Barrett Specification standardized roofing practice throughout the country and gave to the old "tar-and-gravel roof" a definite character and reliability.

Local contractors, in the past, have been accustomed to guaranteeing roofs of this type, free of repairs for from five to ten years.

To good reliable roofers such guarantees were no burden because the roof they constructed would last much longer than the guaranteed period.

The fly-by-night roofer, however, did a poor and cheap job, gave his guarantee recklessly—and was generally out of business when the roof leaked or trouble came.

As manufacturers of the materials used in Barrett Specification Roofs we, therefore, determined a short time ago to standardize these guarantees and *make them of real value to users of Barrett Specification Roofs.*

We, therefore, arranged with the U. S. Fidelity & Guaranty Company to issue a 20-Year Guaranty Bond covering every Barrett Specification Roof of 50 squares and over *wherever our inspection service was available.*

Today this Guaranty and Inspection Service covers all towns of 25,000 population and over and most of the smaller places in the thickly populated parts of the United States and Canada. This means that only 5% of the population is outside the radius of our Guaranty.

This bond takes the place of short-term guarantees formerly issued by the local roofer and obviously is far better because:

—it is for 20 years (instead of the usual five or ten)

—it is backed by a $15,000,000 Corporation

—it has the further backing of a great Surety Company

—it provides for an *impartial expert inspection of the job.*

How to Get the 20-Year Guaranty

When you are writing your roofing specification say:

> "The roof shall be a Barrett Specification Roof laid in accordance with The Barrett Specification, dated May 1, 1916, by a roofing contractor approved by The Barrett Company. The roofing contractor shall furnish The Barrett Company's Surety Bond Guaranty for twenty years, in accordance with Note 1 of said Specification."

On this solid and honest basis as many contractors as you desire may estimate on the job.

The winning contractor notifies us that he wishes the 20-Year Surety Bond and requests our Inspection Service.

One of our inspectors supervises the construction of the roof, tests it by cutting a cross-section, checks up the quantity and the quality of the materials used and certifies that The Barrett Specification has been strictly followed.

On the basis of the inspector's report the 20-Year Guaranty Bond is issued by the U. S. Fidelity & Guaranty Company, and the bond exempts the owner from all expense for repairs or maintenance for the next 20 years.

The Guaranty Bond costs you nothing. The service is free *in the interest of good workmanship and the good repute of our materials.*

While we guarantee Barrett Specification Roofs for only 20 years the chances are that they will last much longer.

We know of instances where this type of roof has lasted twice as long without any expense.

Barrett Specification Roofs are recognized today as the standard covering for permanent buildings of all kinds. The cost, per year of service, is less than any other roof covering. They take the base rate of insurance and are approved as "Class A" construction by the Underwriters' Laboratories, Inc.

If you are interested in the proposition we shall be glad to send you further details on request.

The Barrett Company

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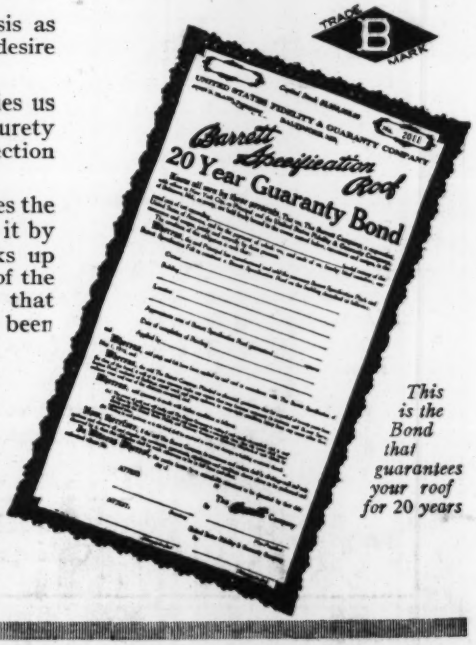

This is the Bond that guarantees your roof for 20 years